Restaurac[j]a Jana Wyżgi 1932

[illegible] ambros[ium] ... distancia [illegible] ... quanta distancia [illegible]
ad ambros[ium] sit distancia [illegible] ad quadram

Cosmographia

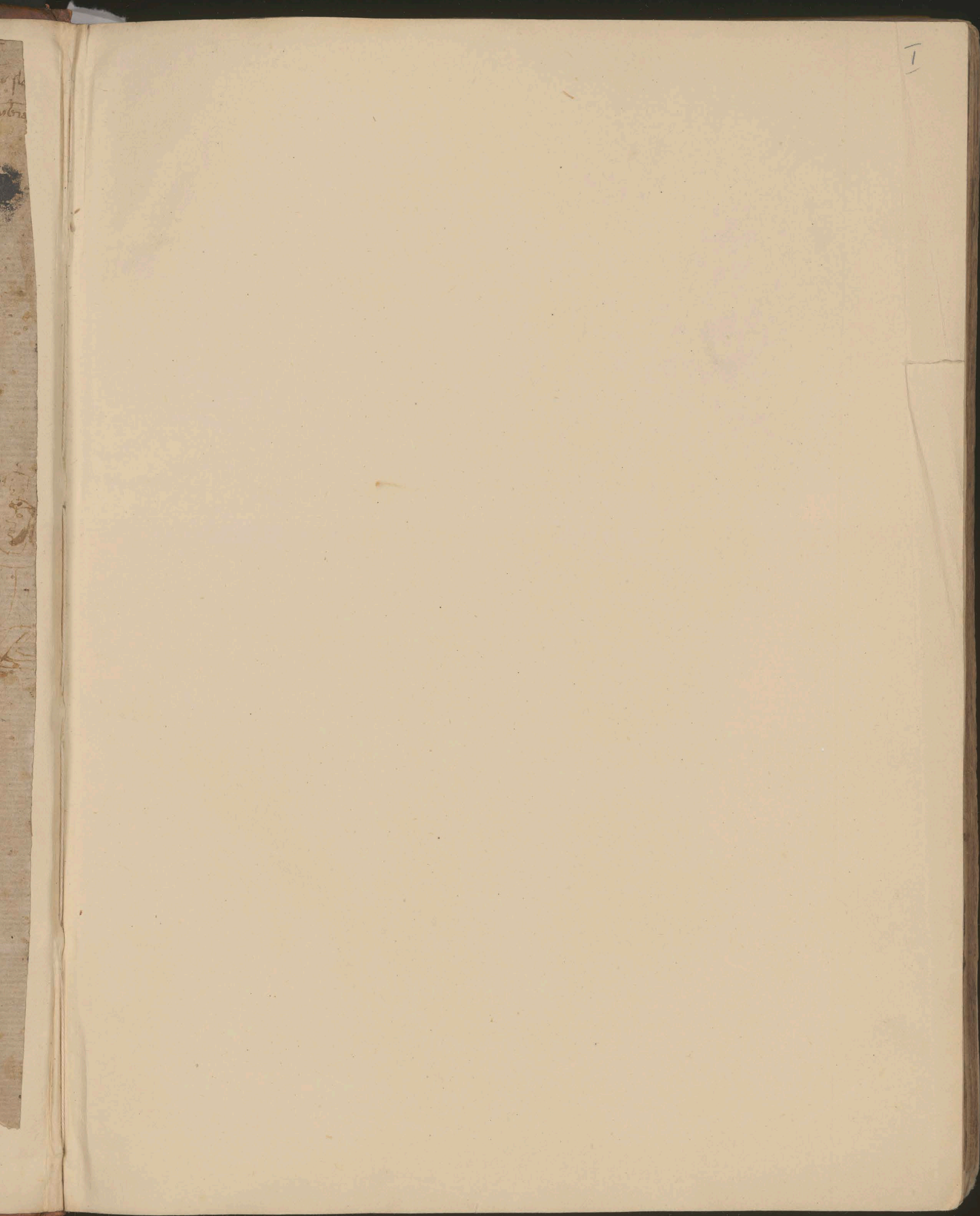
N. Inw. 674

Cometa est suffocativus
magnorum [illegible]
[illegible]
[illegible]
sterilitatis [illegible]
[illegible]
[illegible]
[illegible]
[illegible] regnorum

[illegible]

[illegible] datu[m] per magistrum [illegible]

[illegible] salutem et omnem pulcritudinem
[illegible] et super



Proxij

[illegible]

Lenn' in Kensterton' [illegible]

[illegible]
galitia
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]dado
[illegible]
[illegible]
[illegible]
hilo

Philozophia habet delectationes mirabiles puritate et firmitate

Hanc propositionem scribit ... decimo ... capitulo secundo ... [illegible]

[illegible]

Prius hinc opus sit gratia precurrere aliquam

De primis quidem igitur causis nature et de omni motu naturali, adhuc autem de superius secundum lationem ordinatis astris, et de elementis corporalibus, quot et qualia, et de ea que in invicem permutatione, et de generatione et corruptione communi dictum est prius. Iste liber cuius subiectum est corpus mobile ad formas impressas vel corpus mobile ad qualitates [illegible] ... liber Metheororum [illegible] dividitur in duas partes [illegible] in prohemium et in partem executivam [illegible]

[illegible]

Impressio meteorologica est alteratio [illegible] ... in aere [illegible]

[illegible] primo posteriorum [illegible] impressiones methe[ore] elementi [illegible] in ordina[tione] [illegible] motu celi [illegible] inordinate [illegible] quos [illegible] ubi [illegible]
[illegible] impressiones elementi [illegible] motu [illegible] inordinatiorem [illegible] motu celi [illegible]
[illegible] ordinate [illegible] motu celi [illegible] motu celi [illegible] universo [illegible] impressiones
methe[ore] [illegible] motu [illegible] elementi ab agentibus superioribus [illegible] motu [illegible]
[illegible] universo [illegible] convertit [illegible] [illegible]
[illegible] agente celestium [illegible] motu [illegible] convertit [illegible]
[illegible] [illegible] alter [illegible] alter [illegible] disputatur

Reliqua autem pars huius methodi est adhuc consideranda quam omnes priores nostri metheologicam vocabant. Hic philosophus narrat ea de quibus [illegible] determinandum in hoc libro [illegible] in generali [illegible] in speciali [illegible] ante [illegible] primo dicit [illegible] [illegible] de pluribus [illegible] adhuc [illegible] reliqua pars huius [illegible] quam omnes antiqui philosophi vocant metheologicam [illegible] de pluribus [illegible] adhuc [illegible] consideranda [illegible] pars huius [illegible] quam omnes antiqui philosophi vocabant metheologicam [illegible] corporum [illegible] in alto [illegible] [illegible] libri [illegible] methe[ora] [illegible] a metha [illegible] theos [illegible] speculatio vel contemplatio [illegible] contemplatio corporum [illegible] in alto generata [illegible] [illegible] metha [illegible] theos [illegible] de illis [illegible] actione [illegible] galaxia [illegible] quo [illegible] metheologia dicitur [illegible] de illis [illegible] in alto vel de hiis [illegible] [illegible] a metha [illegible] theos speculatio [illegible] sciencia [illegible] speculativa de hiis [illegible] in alto generata vel dicitur a methe[ora] [illegible] latine [illegible] sermo [illegible] de elevatis seu alto generatis.

Hec autem sunt que accidunt secundum naturam quidem inordinatiorem tamen ea que primi elementi corporum circa locum maxime propinquum lationi astrorum puta de lacte et cometis et ignitis et motis fantasmatibus et quecumque ponet utique aeris esse et communes passiones et aque. Adhuc autem terre quecumque partes et species et passiones partium ex quibus et de spiritibus et terre motibus considerabimus omnes causas et de omnibus que fiunt secundum motum hunc. In quibus hec quidem dubitamus hec autem attingemus aliquo modo. Adhuc de fulminum casu et tyffonibus et presteribus et aliis circulationibus quecumque propter coagulationem accidunt passiones horum corporum.

Hic philosophus ostendit in speciali [illegible] de quibus [illegible] determinandum in isto libro [illegible] [illegible] Et quecumque [illegible] adhuc autem terre [illegible] adhuc de [illegible] primo dicit [illegible] de quibus [illegible] determinandum [illegible] in ordinacione [illegible] ista [illegible] [illegible] celi [illegible] de quibus [illegible] accidunt [illegible] ista [illegible] ista [illegible] celi [illegible] ista [illegible] locum [illegible] lacioni stellarum [illegible] puta [illegible] de via lactea [illegible] galaxia [illegible] de impressionibus [illegible] stelle [illegible] comate [illegible] de aliis impressionibus ignitis [illegible] de aliis impressionibus fantasticis [illegible] [illegible] postea [illegible] de impressionibus [illegible] ex aqua [illegible] vel aqua [illegible] de pluvia [illegible] et similibus [illegible] determinabimus [illegible] de illis [illegible] terre sicut sunt omnes [illegible] [illegible] passiones [illegible] [illegible] passiones [illegible] [illegible] de spiritibus [illegible]

[illegible] [illegible] [illegible] [illegible] ordinacione [illegible]

3

in terra et de terre motibus. Et considerabimus omnes tales conditiones, et considerabimus de omnibus que fiunt secundum motum ipsorum [illegible] terre motu [illegible] et similia, et in quibusdam illorum tangetur aliquid dubitative [illegible] de ipsis [illegible] de impressionibus [illegible] de aliis impressionibus [illegible] coagulationem [illegible] Adhuc autem [illegible]

[illegible] de galaxia [illegible] de impressionibus [illegible] stelle comate et aliis [illegible] impressionibus [illegible]

[illegible]

[illegible] Pertranseuntes autem de hiis speculabimur si quid possumus secundum inductum modum assignare de animalibus et plantis universaliter et sigillatim. Sic enim hiis dictis finis utique factus erit omnis eius que a principio nobis electionis.

Hic consequenter narrat [illegible] de quibus [illegible] isto libro [illegible] speculabimur si possumus [illegible] de animalibus et plantis [illegible] narrative [illegible] de animalibus [illegible] de plantis [illegible] et passionibus [illegible] liber [illegible]

Sic igitur incipientes dicamus de ipsis. Primum quidem igitur determinatum est prius nobis unum quidem principium corporum ex quo constat circulariter latorum corporum natura. Alia autem quatuor corpora propter quatuor principia, quorum dupliciter dicimus esse motum, hunc quidem a medio, hunc autem ad medium. Quatuor autem existentibus hiis, igne et aqua et aere et terra, omnibus quidem hiis supereminens esse ignem, substans autem terram. Duo autem que ad invicem hiis proportionaliter habent

aer quidem cum igni propinquior aliis, aqua autem terre. Hic philosophus [illegible]

[illegible] Totus liber [illegible] libros [illegible] philosophus determinat de impressionibus [illegible] calida [illegible] sicca [illegible] philosophus determinat de impressionibus [illegible] calida et humida [illegible] libro philosophus determinat de impressionibus [illegible] calida et sicca [illegible] calida et humida [illegible] philosophus [illegible] passionibus [illegible]

[illegible]

Circa autem locum terre totus mundus ex his constat corporibus de quo accidentes passiones dicimus esse sumendas [illegible]

[illegible]

Est autem ex [illegible] ... iste superioribus, lacombus ut eius ... totius gubernet inde unde enim motus principium illam tam putandum primam ... [illegible]

[illegible]

Adhuc autem hic querit perpetuus et finem motus non eius loco sed semper ... autem corpora omnia finita distat locis ab invicem ... [illegible]

[illegible]

[illegible]

Quae autem circa eum qui [illegible] ignem quidem et terram et singula hujus materiae sunt causas oportet putare sicut eum circa passiones appellamus [illegible] sit ea ut motus principium eius quod semper movetur causam dicere [illegible]

[illegible]

Resumentes igitur eas quae a principio positiones et determinatas prius determinationes dicamus de lactis fantasia et de cometis et aliis quaecumque cognata sunt his

[illegible]

Dicamus itaque ignem et aerem et aquam et terram fieri ex invicem et unumquodque horum in unoquoque existere potentia sicut et aliis quibus unum aliquid et idem subiectum in quod ultimum resolvitur

[illegible]

Primo quidem igitur dubitabit utique quis vocatum aerem quam oportet accipere naturam in mundo [illegible]

[illegible]

tiam et quomodo se habet ordine ad alia decem elementa corporum [illegible]

[illegible]

Moles quidem cum utrumque terre quanta [illegible] utrumque sit ad videntes magnitudines nobis manifesta nam et visum per astrologorum theoremata nobis quidem inter et quibus aliis maior et aque [illegible] nam constantem et separatam neque medium neque contingit separatam esse ab eo [illegible] terram locis corporis puta maris et fluminibus et utrumque sit eorum [illegible] nobis est

[illegible]

inter medium utrumque terre et ultimo astrorum unum aliquid putandum esse corpus [illegible] sunt locis [illegible]

[illegible]

Nobis quidem igitur dicamus [illegible]

[illegible]

de primo elemento quale est existimantes. Et quia totus qui circa superiores locus mundus illo corpore plenus est. Et hanc opinionem non solum existimamus nos habentes, videtur autem vetus quedam existimacio ipsa et priorum hominum. Deus et ether antiquam accepit appellationem. Anaxagoras autem quidem putasse in male significare superiorem enim plena igne est. Et ille enim qui ibi potestatem ethera vocari putavit hoc quidem recte putans. Etenim fore corpus eterne simul et divinum aliquod esse natura tamquam sic existimantes determinaverunt nominare ethera, quod tale quidem nulli corpori est apud nos commune [illegible]

[illegible]

Non enim utique dicimus semel neque bis neque raro easdem opiniones revertentes fieri in hominibus sed infinicies [illegible]

[illegible]

6

[illegible]

Circumcurrere autem ignem purum et aerem quod ambit et non solum lata corpora quae autem in medio terre et astrorum considerantibus
utique omnia per mathematica sufficienter facta desistere ab hac pu-
erili opinione. Valde enim simplex putare unumquodque latorum esse
parvum magnitudinibus esse videri aspicientibus hinc sit nobis
quidem et prius in hiis que circa superiorem locum theorematibus
diximus autem eandem rationem et nunc. Si enim et distantie plene ignis
et corpora constat ex igne olim annichilatum utique esset unumquodque
aliorum elementorum

[illegible]

[illegible]

Attamen neque ex aere solo plena complementum eius existimandum equaliter omnibus analogie ad coelementaria corpora

[illegible]

Et si duobus ex elementis plenus qui in medio terre et celi locus, nulla enim utique esset pars terre molem in comparatione tota et omnes aque multitudo ad ambientem magnitudinem. Videmus autem non in tanta magnitudine factum excessum molis, cum ex aqua disgregata aer fiat, aut ignis ex aere. Necesse autem eandem rationem habere quam habet tantilla ad se invicem, ex ipsa aere ad totam aquam.

[illegible]

[illegible]

Differt autem nichil neque si quis dicat quod non fieri ex invicem elementa, tamen potentia esse. Secundum hunc enim modum necesse est equalem virtutem existere magnitudinibus ipsorum, quemadmodum utique si fierent ex invicem existere

[illegible]

[illegible] quod inconveniens

aer neque ignis tum replet medium locum manifestum est. Hec [illegible]

[illegible]

Relinquitur autem perscrutantes dicere quomodo ordinata sunt duo ad primum corpus posita, dico autem aerem et ignem, et propter quam causam caliditas a superioribus astris fit his qui circa terram locis.

[illegible]

Primo sicut propositum, dicamus sic et de his iam. Si itaque fit aqua ex aere et aer ex aqua, propter quid tamen non consistunt nubes in superiori loco?

[illegible]

Conveniebat enim magis quanto remotior a terra locus est frigidior esse, neque propter astra calida continua existens, neque propter radios a terra refractos sursum prohibet propter frigus consistere, dissipantes caliditate sua. Consistere desinunt enim nubium congregationes ubi desinunt iam radii propter spargi in immensum.

[illegible]

[illegible]

Aut igitur non ex omni aere nata aqua fieri etc.

[illegible]

Aut si simul ex omni et circa terram non solum aere, sed et aliud vapor propter semper constans in aquam [illegible] si tamen omnis aer omnis vapor, et videbitur utique multum excedere que aeris natura et que aque, siquidem superiorum distantie plene sunt corpore aereo et igne equidem impossibile est desiccari. Utique alia omnia relinquam [illegible] et circa terram aqua et vapor cum utique disgregatur. Et de hiis equidem dubitandum sit hoc modo etc.

[illegible]

Nos igitur dicamus simul et ad dicta et ad futura. Ea dicenda [illegible]

[illegible]

Luna

Et quod est sursum et usque ad lunam dicimus esse corpus alterum ab igne et aere; sed hunc tamen in ipso hoc quidem purius esse, hoc autem minus sincerum et differentias habere, et maxime qua desinit ad aerem et ad eum qui circa terram mundum [illegible]

[illegible]

Lato autem primo elemento et hiis que in ipso corporibus, quod semper inferiorem mundum et corpus motu disgregatum accendit et facit calorem. Oportet autem intelligere sic et nunc incipientes [illegible] sursum latum corpus velut materia quedam existens in potentia calidum et frigidum et siccum et humidum et quecumque alie hiis assequuntur passiones, fit tale a motu et mobilitate, cuius causam prius diximus [illegible]

[illegible]

sed in potentia calida, tunc aer sit contrarium. calida et sicca quia sed potentia sicca. et aer sit de actu sicca et hoc causatur a motu et mobilitate celi / et tamen et primum [illegible] dependens [illegible] quod [illegible] celi sit ceteris corporibus influens / [illegible] licet ista est [illegible] quod opera [illegible] contra ista communiter contra dicta [illegible] vel de [illegible] ad sensus [illegible] vel [illegible] / quod [illegible] motu celi [illegible] ad sensus [illegible] vel [illegible] a motu celi / [illegible] / Item [illegible] quod [illegible] celo attendi a motu [illegible] celi [illegible] ad actum [illegible] / Item [illegible] [illegible] actum celi [illegible] calida [illegible] / Item [illegible] ista [illegible] celi [illegible] celo [illegible]

In medio quidem igitur et circa medium est quod gravissimum et frigidissimum segregatum terra et aqua. Circa hanc autem et habita hijs aer et quem propter consuetudinem vocamus ignem, non est autem ignis. excessus enim calidi et velut fervor est ignis. Oportet autem intelligere eius qui dicitur a nobis aeris quod quidem circa terram velut humidum et calidum est propter vaporem et exalacionem habet terre. Quod autem super hoc iam calidum et siccum. Est enim vapor autem natura humidum et calidum, exalacio autem calidum et siccum. Et est vapor quidem potentia velut aqua, exalacio autem potentia velut ignis.

[illegible] in hac parte [illegible] [illegible] ordine [illegible] dictorum [illegible] / [illegible] / segregatum [illegible] ab aliis [illegible] / circa medium et [illegible] terra et aqua / et circa [illegible] aer [illegible] ignem [illegible] / ignis [illegible] ignis / [illegible] calidi [illegible] et velut fervor [illegible] / [illegible] a nobis dicitur [illegible] aer [illegible] terra / [illegible] calidum et humidum [illegible] vapores et exalacionem [illegible] a terra / [illegible] aer [illegible] calida et sicca / [illegible] vapor [illegible] calidum et humidum / [illegible] exalacio [illegible] calidum et siccum / et vapor est in potentia velut aqua. [illegible] exalacio est in potentia velut ignis / [illegible] vapores et exalacionem / [illegible] quod [illegible] / [illegible] aer [illegible] / [illegible] / [illegible] terra [illegible] / [illegible] aqua / [illegible] segregatum [illegible] / [illegible] velut [illegible] ignem [illegible] / [illegible] in terra / [illegible] ista [illegible] / [illegible] terra [illegible] aer [illegible] ignis [illegible] / [illegible] ignis [illegible] calefacit [illegible] aer [illegible] / [illegible] calor [illegible] / [illegible] aer [illegible] calidi et humidi [illegible] subtilis [illegible] aer [illegible] humidus [illegible] / [illegible] aer [illegible]

Huius quidem igitur in eo qui sursum loco non constare nubes hanc oportet estimare causam, quia non est ibi aer solum sed magis velut ignis.

[illegible] / [illegible] / [illegible] in [illegible] / [illegible]

Cause stat in hoc. Ratio secunda superius tetigit (?) propter veritatem ad eam ... relata inveniuntur ... modo ... locatus ... ibi ... segregatur ... disgregatur ... anteriori videbatur

Secunda c [illegible]

Conclusio octava (?)

[illegible]

Nichil enim prohibet ...

... in centum lacuum prohiberi ... nubes in superiori loco ...

enim nitrum (?) ... in centum acrem ...

... capite ... substancia (?) ... ventos ... instagnationibus loci terre ... ventos

alteros motos ... in centum ... terminus (?) ...

lacum ignis ... aer ... igne ... aer

... motus ... in aere ...

... in superiorem locum calidus ...

Alia ... in parte ... ignite sit ...

... ad plenum ... igne et semper aliud

et aliud sit ... semper ...

[illegible]

Secunda ... mom (?)

[illegible]

Nota

... tres regiones aeris

[illegible]

[illegible] (no bene) [illegible]

[illegible] (Nota) [illegible] (Signum) [illegible]

De eo quidem igitur quod neque fiunt nubes neque in aere congregationem et quod ex attractione de loco terre astrorum et terre et quo [illegible] plenus [illegible] [illegible] Defacta autem caliditate quam prebet sol magis quidem per se et diligentius in hiis que de sensu convenit dicere. Calor enim passio quedam [illegible] ante [illegible] talibus [illegible] [illegible]

[illegible] Videmus itaque motum [illegible] per disgregare aerem et ignire [illegible] lata [illegible] videatur sepe eius quidem [illegible] [illegible] et calorem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aut [illegible] [illegible] sufficit [illegible]

aut calorem magis [illegible] Et quia auctores [illegible] adhuc [illegible] permittit velocitatem
tam vero eius ad astra [illegible] calefaciendi [illegible] applicat eam [illegible] solis [illegible]
applicat eam ad aspectum solis [illegible] quod quidem [illegible] in [illegible] lectura [illegible] iste [illegible]
[illegible] sunt // Et [illegible] motu [illegible] quod iste [illegible]
[illegible] ut [illegible] motu [illegible] [illegible] [illegible]
[illegible] solis [illegible] sufficiens [illegible] effectus [illegible] calefaciendi [illegible] insensibilis
[illegible] velocitatem [illegible] motu [illegible] calefaciendi [illegible] velocitate [illegible]
[illegible] longe distante [illegible] uno astro [illegible] stella [illegible] magis velox quam sol [illegible]
[illegible] ab [illegible] insensibiliter [illegible] stella [illegible] magis [illegible] insensibiliter
quam sol [illegible] magis tarda [illegible] motu [illegible] stella [illegible] solis [illegible]
[illegible] ambo [illegible] velocitate motus [illegible] insensibiliter [illegible]
[illegible] circa [illegible] ista [illegible] magis [illegible] calefaciendi [illegible]
[illegible] aliorum astrorum [illegible] illud [illegible] sufficit [illegible] calefacere
[illegible] velocitas motus [illegible] magis [illegible] calefacit [illegible] insensibiliter
[illegible] ad aliorum astrorum [illegible] sol [illegible] orbe [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] velocis motus [illegible] [illegible] sagitta
velocitas [illegible] velocitate [illegible]
[illegible] sol [illegible] calorem
[illegible] velocitate [illegible] calorem
[illegible] calefaciendi [illegible] velocitate [illegible] distans [illegible]
a sole [illegible] velocius [illegible] sole [illegible] distat ab [illegible] insensibiliter [illegible]
[illegible] tardius sole [illegible] distat ab [illegible]
[illegible] astro [illegible] vel [illegible] distat
ab [illegible] insensibiliter vel [illegible] tarde [illegible] motus [illegible] maior [illegible]
magis [illegible] caloris [illegible] velocitatis [illegible]
aliorum astrorum [illegible]
[illegible] ambas [illegible] velocitatem motus [illegible] sufficiente
[illegible] distat ab [illegible] insensibiliter quam sol velocius movetur
[illegible] tardissime movetur [illegible]
maior distat ab [illegible] [illegible] motus [illegible]
[illegible] ab oriente [illegible] motus [illegible]
[illegible] velocitate [illegible] motus [illegible]
vel [illegible] ab occidente [illegible] oriente [illegible] velocitate
[illegible] orbes [illegible] velocitate movetur [illegible]
[illegible] motu [illegible] tardissime movetur [illegible]
[illegible] motus [illegible]
[illegible] tardissime [illegible] motus
[illegible] velocitate [illegible] [illegible]
[illegible] sole [illegible] distat ab [illegible] insensibiliter [illegible]
[illegible] solis [illegible] Ptolemei
[illegible] [illegible]
[illegible] motus [illegible] motus solis
[illegible] sol [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] sicut autem magis sunt [illegible] solis [illegible]
[illegible] [illegible] similes [illegible] apud nos

fiunt, et cum hic violenter latius ultimus aer maxime fit calidus.
Et hoc racionabiliter accidit. Maxime enim motus solidi disgregat ipsum
propter hanc causam pertingit ad hunc locum calor [illegible]

[illegible]

Et quia ambiens ignis per aerem sequitur
frequenter motui et fit violenter deorsum [illegible]

[illegible]

sufficiens est. Qui enim sursum locus non est calidus neque ignitus [illegible]
astrorum [illegible] deorsum autem [illegible] magis
movetur [illegible] ignia [illegible] adhuc autem sol qui maxime est
calidus videtur [illegible] non igneus [illegible]

[illegible]

Hec autem determinatis dicamus propter quam causam flamme ardentes
apparent in celo et celum et discursus stelle et vocati a quibusdam
dali et capre. Hec enim omnia sunt idem et propter eandem causam.
Differunt autem per magis et minus [illegible]

[illegible]

... in aere plus assumpsit ... a quibusdam dicuntur capre [illegible]
[illegible] ... fuit ... [illegible]
[illegible] ... [illegible]
[illegible] ... ad ... [illegible]
[illegible] impressionis ... [illegible]
... aut ... causas impressionis ... [illegible]
[illegible] ... dicuntur ... capre ... impressiones ... [illegible]
[illegible] ... magis ... [illegible]
[illegible] ... plus ... [illegible]
alias ... [illegible] ... impressiones ... [illegible]
... stellas ... impressio ... de longa apparens [illegible]
... videntur ardentes ... impressio ... de longa
apparens ... stellarum ... [illegible]

Principium autem et horum et multorum aliorum sit hoc. Calefacta enim terra a sole exhalationem necesse fieri non simplicem ut quidam putant sed duplicem, hanc quidem vaporosam magis, hanc autem magis fumosam, hanc quidem eius quod in terra et super terram humidi vaporem, hanc autem ipsius terre existentis siccam fumosam. Et harum fumosam quidem supereminere propter calidum, humidiorem autem subsidere propter pondus.

... Et primo ... inflammationem ... a calido ...
... apparent ... calefactum ... adhuc ...
... impressiones ... [illegible]
... [illegible]
... [illegible]
calefacta a sole ... exhalationem ... [illegible]
... [illegible]
... exhalationem ... vaporosa ... [illegible]
... exhalationem ... vapores ... [illegible]
... fumosa ... valde ... [illegible]
... [illegible]
... impressionum ... exhalationis ... fumosa calida
... stelle ... [illegible]
... calefacta terra a sole ... exhalationem ... [illegible]
... vapores ... [illegible]
... vapor ... vapor ... vapor ... [illegible]
... vapores ... impressiones ... in alto ... Calor solis ...
... impressiones ... [illegible]
... exhalatio ... vaporosa ... [illegible]
... exhalatio ... a terra ... [illegible]
... calorem ... vaporosa ... [illegible]
... fumosa ... humidiorem ... [illegible] Et propter hoc hic modo ordinatum est ... ... quod continuum primo quidem esse sub circulari latione calidum et siccum esse quod dicimus ignem. Innominatum enim est commune quod in omni fumosa disgregatione. At tamen quia maxime natum est tale corporum sic utendum est nominibus. Hanc autem naturam esse aerem ... [illegible]
... [illegible] ... impressio ... [illegible]
... a ... [illegible] ... est

... [illegible]
... [illegible] ... calido ... [illegible]

[illegible]

Opportet autem intelligere velut ypecauma hoc quod nunc diximus ignem. Ordinatio est ultimi sphere [illegible] ut modico motu sparsatur sepe sicut fumus. Est enim flamma spiritus sicci ardor. Hinc autem ubi maxime opportunum habeat talis consistentia cum a circulatione mota fuerit [illegible]

[illegible]

Si quidem igitur latitudinem habeat et longitudinem ypecauma, multotiens videtur flamma velut in agro ardentis stipule. Si autem secundum longitudinem solum, vocati dales et eges et sydera. Si quidem plus ypecaumatis fuerit secundum longitudinem quam latitudinem, cum quidem quasi scintillat, sunt combustio. Hoc autem fit propter [illegible] secundum modica. Quidem ad principium vocatur eges.

[illegible] [illegible] gluten [illegible] ... scintillationes ... vocatur

p(ro) modicas ptes — Cum aut(em) sine hac passio(n)e dalue(s) [illegible] vo longitudine(m) exhalatio(n)is
modicu(m) — p(ri)ma ... [illegible] ... dispersa fuerit et simile s(e)c(un)d(u)m latitudine(m) et p(ro)fundit(atem)
fiunt — sydera puta volantia fiunt et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] impressionis s(e)c(un)d(u)m [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
quet — [illegible] impressio(n)is [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colligit [illegible] [illegible] impressio(n)is
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] impressio(n)is [illegible] [illegible] [illegible] [illegible] impressione(m) [illegible]
Simul — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Si [illegible] exhala(tio)
calida [illegible] [illegible] [illegible] [illegible] longitudine [illegible] [illegible] [illegible] appa(re)t [illegible] velut
flamma ardens [illegible] [illegible] [illegible] [illegible] plana [illegible] campo vel [illegible] [illegible]
si [illegible] exhalacio [illegible] [illegible] [illegible] [illegible] [illegible] impressiones [illegible] [illegible] [illegible]
[illegible] [illegible] sydera volantia [illegible] [illegible] [illegible] exhalacio calida [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] appa(re)t [illegible] [illegible] [illegible] [illegible] scintillat
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] scintillat [illegible] [illegible] dalos [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sydera [illegible]
nondu(m) — volantia [illegible] [illegible] [illegible] [illegible] [illegible] impressione(m) [illegible] [illegible] [illegible] [illegible]
appare(n)s — [illegible] [illegible] [illegible] longitudine(m) [illegible] [illegible] impressio [illegible] appa(re)t [illegible]
[illegible] [illegible] magne flamme [illegible] [illegible] [illegible] [illegible] campis [illegible] [illegible]
alba — [illegible] [illegible] [illegible] ardentis [illegible] [illegible] [illegible] [illegible] Si [illegible] [illegible] latitudine
[illegible] [illegible] [illegible] [illegible] impressio(n)is [illegible] [illegible] vapor [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
appa(re)t — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ardens — basi
pars — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] longitudine [illegible]
[illegible] appa(re)t de suis lateribus [illegible] [illegible] appa(re)t de longitudine [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ascendit
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] appa(re)t [illegible] [illegible] [illegible]
Capre — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] oblonga [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] impressio
Dalus — [illegible] dalus [illegible] [illegible] [illegible] [illegible] [illegible] longa [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] impressio(n)is [illegible] sydera volantia [illegible]
[illegible] appa(re)t [illegible] [illegible] sydera volantia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] impressi(o)
magnitudine — d(iffere)ntia — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] magnitudine [illegible]
figura — [illegible] exhalacio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] appa(re)t [illegible] oblonga [illegible] appa(re)t
colore et situ — [illegible] [illegible] [illegible] appa(re)t [illegible] globi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] exhalacio
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] exhalacio
[illegible] [illegible] [illegible] exhalacio [illegible] [illegible] [illegible] [illegible] [illegible] appa(re)t colore [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
colore — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] appa(re)t [illegible] [illegible] [illegible] [illegible] [illegible]
loco — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] exhalacio calida [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] impressione(m) [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] impressio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] exhalacio(n)e(m)
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] impressio(n)es [illegible]

[illegible] flamma [illegible] [illegible] [illegible] [illegible] [illegible] aeris [illegible]
[illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible]
[illegible] stellarum [illegible] [illegible] celi [illegible] [illegible] [illegible] [illegible]
[illegible] magis [illegible] [illegible] [illegible] [illegible] [illegible] causas [illegible] impressionum
magis [illegible] [illegible] [illegible] exhalacio [illegible] [illegible] [illegible] exhalacio est
calida et [illegible] inflammabilis [illegible] [illegible] [illegible] terram [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] calor [illegible] [illegible] inflammat [illegible]
exhalacionem [illegible] [illegible] sit tunc apparet [illegible] candela [illegible] [illegible] impressiones [illegible]
[illegible] [illegible] in sepulcris mortuorum [illegible] [illegible] exhalacio [illegible] [illegible] flamma [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] terram [illegible] de nocte
[illegible] exhalacio inflammatur [illegible] [illegible] [illegible] lucerna vel candela [illegible] terram [illegible]
[illegible] impressionibus [illegible] [illegible] apparencia [illegible] [illegible] [illegible] apparencia [illegible]
aeris [illegible] [illegible] [illegible] impressiones [illegible] [illegible] [illegible] homines [illegible]
[illegible] apparencia [illegible] [illegible] [illegible] [illegible] impressiones [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] exhalacio [illegible] [illegible]
[illegible] inflammatur [illegible] [illegible] de nocte apparet [illegible] impressionibus [illegible] [illegible]
[illegible] exhalacio [illegible] ad mediam regionem aeris [illegible] [illegible] [illegible]
regionem aeris [illegible] [illegible] exhalacio [illegible] [illegible] disposita [illegible] [illegible]
[illegible] [illegible] [illegible] impressiones. Si enim exhalacio longa
et [illegible] [illegible] [illegible] lata tunc [illegible] [illegible] [illegible] regionis aeris
sit [illegible] impressio ad modum trabis ardentis. Si autem [illegible] exhalacio [illegible] ad modum globi
[illegible] pertingit ad mediam regionem aeris [illegible] [illegible] [illegible] distat a media
regione [illegible] apparet [illegible] [illegible] ad mediam regionem [illegible] inflammacionem [illegible]
exhalacionis [illegible] apparet ignis [illegible]. Si autem exhalacio [illegible] ad modum globi [illegible]
pertingit ad mediam regionem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] oblique
[illegible] [illegible] [illegible] tunc apparet ignis saltans. Si autem ista exhalacio [illegible]
[illegible] [illegible] [illegible] magis [illegible] [illegible] [illegible] regionis [illegible] inflammatur
[illegible] tunc apparet [illegible] [illegible] volans. Si autem exhalacio [illegible] [illegible] [illegible] forte [illegible]
[illegible] [illegible] regionis vel [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] mediam tunc [illegible] ista exhalacio [illegible] magis [illegible] apparet lata [illegible] [illegible]
[illegible]. Si autem ista exhalacio [illegible] [illegible] [illegible] globis [illegible] globi [illegible]
exhalaciones [illegible] [illegible] [illegible] [illegible] globo [illegible] [illegible] [illegible]
mediam [illegible] apparet [illegible] saltans. Si autem ista exhalacio [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] magis [illegible] [illegible] inflammatur [illegible] mediam [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] mediam [illegible] [illegible] apparet stella cadens. Si
[illegible] ista exhalacio [illegible] mediam [illegible] apparet [illegible] lancea ardens. Si autem [illegible]
exhalacio [illegible] [illegible] [illegible] [illegible] mediam [illegible] apparet [illegible] columpna ardens
[illegible] [illegible] illius exhalacionis [illegible] [illegible] apparet [illegible] [illegible] illius columpne [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] flamma [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] Aliquando quidem igitur a motu exhalacio
coacta generat ipsa, aliquando autem sub frigore consistente aere extruditur et
segregata calidum. Propter quod et lacio ipsorum assimilatur magis projectioni sed non
combustioni [illegible] [illegible] [illegible] aliud [illegible] [illegible] [illegible] impressionum [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dubitabit [illegible] [illegible] [illegible]
[illegible] [illegible] exhalacio [illegible] a motu [illegible] [illegible] aeris generat ipsa [illegible]
[illegible] [illegible] [illegible] [illegible] extruditur [illegible] exhalacio [illegible] [illegible] segregata
[illegible] [illegible] [illegible] magis [illegible] [illegible] combustioni [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] regionem aeris [illegible]

[illegible] ... in [illegible] ... vapor [illegible] ... [illegible]
[illegible] ... vapor ... [illegible] ... accendit ... attingit
[illegible] ... obviatur ... [illegible] ... vaporis
[illegible] motu ... [illegible] ... flamam [illegible]
[illegible] ... Alberti [illegible]
[illegible] ... stupa ardens ... [illegible]
velut [illegible] lucerna posita ... a superiori flama accendat ... Dubitabit utrum
inferiorem lucernam ... [illegible] ... velocitas [illegible] similis
[illegible] non in alio [illegible] igne ... [illegible] ... impressiones
[illegible] corporis sunt dispersae ... [illegible] ... solvit
[illegible] ... dubitatur utrum iste motus sideris volantis sit [illegible]
[illegible] a flama superiori ... accendit inferiorem lucernam ... [illegible]
motu ... [illegible] ... igne ... [illegible]
[illegible] ... utrum illi dicti sidere sit [illegible]
[illegible] ... ista sidera volantia ... [illegible] ... stat in [illegible]
[illegible] ... motu ... [illegible]
[illegible] ... expellit a superiori ad inferiorem ... descendere
vapor igneus ... [illegible] ... ista
[illegible] ... flama ... [illegible]
[illegible] ... [illegible]
Videtur autem itaque [illegible] ambo ... sit alucha [illegible]
[illegible] velut ... [illegible] ... ut [illegible]
[illegible] cadere ... [illegible] per diem [illegible]
[illegible] ad deorsum inclinat ... [illegible]
deorsum cadunt ... [illegible]
expulsione ... [illegible] ... calidum sursum [illegible]
[illegible] solvit dubium ... [illegible] ... ambobus ... [illegible]
[illegible] ... sit motus sideris volantis ut [illegible] ... [illegible]
[illegible] sidera volantia ... deorsum ... expellit ... [illegible]
[illegible] ... ista sidera ... [illegible]
[illegible] ... [illegible]
[illegible] ... ista sidera ... deorsum ... [illegible]
[illegible] ... sidera ad deorsum ... [illegible]
[illegible] deorsum ... [illegible]
[illegible] motum expulsionis ... calidum ... [illegible]
[illegible] ... [illegible]
[illegible] sidere volante ... vapor ... [illegible]
[illegible] de candela ... vapor ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] vapor ignitus ... Item ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... Item ... [illegible]
[illegible] ... [illegible]

[illegible]

Quoniam igitur quod magis in supremo loco consistit generatur fit exalacio et genus aut diminutius segregata propter condensationem ... humidiorem exalacionem. Hec enim congregata et deorsum tendens propellit in spissitudine et deorsum facit calidi ...

[illegible]

Propter positionem autem exalacionis quantitatemque contingat posita latitudine et profunditate sic fertur et sursum et deorsum et ad latus. Plurima autem ad latus propter duabus fieri lacionibus, violentam quidem deorsum, naturalem autem sursum. Omnia enim secundum diametrum feruntur talia ... plurima obliqua fit lacio.

[illegible]

Omnium itaque horum causa eadem ut materia exalacio. Sed autem movens aliquando quidem sursum lacio, aliquando autem aeris contracti coagulacio. Omnia enim hec sub luna fiunt. Signum autem apparentia ipsorum velocitas similis existens hiis que a nobis proiciuntur. Nam que propter nos sunt multa videntur velocitate precedere astra et solem et lunam.

[illegible]

[illegible]

9° 13

[illegible]

Apparet autem aliquando nocte serena tempore contingere multa fantasmata in celo puta hiatus et bothini et sanguinea colores [illegible]

[illegible]

Causa autem et in hiis eadem. Cum enim manifeste constans qui sursum aer ut ignitus fiat et tale quandoque exardescit ut flamma videatur ardere, aliquando autem velut dalides ferri et sydera. Nullum inconveniens si colorescit idem iste aer omnimodos colores [illegible]

9° xiiij

[illegible]

Per spissum enim transparens minus lumine et refractiones suscipiens aer omnimodos colores faciet, maxime autem puniceum aut purpureum [illegible] maxime ex albo et igne apparent [illegible] apparitiones [illegible] velut dicitur [illegible] sic fiunt. Camina et per finem puniceum apparet. Et refractiones autem faciet. Cum speculum fiunt tale ut non figuram sed colorem suscipiat. Quia vero multo

[illegible]

temporis manet. Hec consistencia velox et non [illegible]

[illegible]

[illegible] colores [illegible] hyatu et voragine [illegible]

[illegible] colores [illegible]

[illegible] color [illegible]

[illegible] camma [illegible] colores [illegible]

[illegible]

[illegible] colores [illegible]

color [illegible]

[illegible] color [illegible]

[illegible] color [illegible] colores [illegible]

[illegible] color [illegible]

[illegible] colores [illegible]

[illegible] color [illegible] colores [illegible]

[illegible] colores [illegible]

Hiatus autem disrupto lumine ex obscuro et nigro facit putari habere quandam profunditatem. Multotiens autem ex talibus et [illegible] excidunt, ut cum constipatum fuerit magis. Concursum autem apparens voraginem videtur. Omnino autem in nigro album multas facit varietates velut flamma in fumo.

[illegible] hyatu et voragine [illegible] hyatu [illegible] voragine [illegible]

[illegible] vapor [illegible] voragine [illegible] colores [illegible] flamma in fumo.

Camma michi alberto magno

[illegible]

De die quidem enim sol prohibet, nocte autem excepto puniceo alii propter similem colorem non apparent. [illegible]

[illegible]

De discurrentibus quidem igitur astris et ignitis, adhuc autem de aliis talibus fantasmaticis quecumque festinas faciunt fantasias, has existimare oportet causas. [illegible]

Tercius tractatus [illegible]

De cometis autem et vocato lacte dicamus, dubitatis prius ab aliis primo. [illegible]

[illegible] Anaxagoras quidem igitur et Democritus aiunt esse cometas symphasim erraticarum stellarum, cum propter propinquitatem videantur tangere invicem. [illegible]

[illegible]

Contingunt ista stella splendente cometa
Mors furit, urbs rapitur, semper maris genus opatur
Regnum mutatur, plebs peste, fame ruinat
[illegible] verbo cometes [illegible] cometa vocatur
Nam committuntur cum peste gladiis famesque

16

[illegible]

Tamen quidam vocatorum pytagoricorum quidam dicunt ipsam esse ex erraticis sideribus. Sed post multum tempus fantasia ipsius esse et occissimis ad modicum [illegible] quidam accidit [illegible] stellarum quam non modicum distendit, saepe non apparet, ita ut post tempus appareat multum.

[illegible]

Similiter autem hiis et qui ex ypocrateus [illegible] et discipuli ipsius existimant [illegible] comam non ex ipso habere, sed errantem [illegible] accipere refracto visu ab [illegible] humore ab ipso ad solem.

[illegible]

Prima autem distendit tardissime tempore apparet post tempus plurimum aliorum astrorum ut eo quod eodem appareat sub defectus per totum suum celum. Cede aut ipsum [illegible] ad articulum [illegible] quibus plus apparuit que apparuerunt comete secundum istam opinionem [illegible] stella

Opiniones enim solent [illegible] ad plenius [illegible]

[illegible]

tardissimo tempore deperit, a radiis solaribus [illegible] et [illegible] astrorum ista apparet [illegible]
[illegible] tempus [illegible] per totum circulum [illegible] deperit [illegible] apparet [illegible]
[illegible] sole [illegible] continet [illegible] eodem ad polum articum et ad polum antarticum [illegible]
[illegible] ista stella apparet [illegible] [illegible] nota
[illegible] apparet [illegible] [illegible] sole [illegible]
[illegible]
[illegible] a sole [illegible] declinat [illegible]
[illegible] vaporem [illegible] **Amplius quando in loco tropicorum non attrahitur** [illegible] a sole
aquam ad ipsum et est supra ea a solis latione [illegible] **ad austrum autem ad**
ista capiens quando fuerit [illegible] **et pura** [illegible] **circulo** [illegible]
terram; quando autem deorsum inclinat [illegible] **per visum hominis** [illegible]
solem, necessarie appinguescere [illegible] **loco, necessarie in estivis visionibus** [illegible] **ad**
sole [illegible] **in hiis quando** [illegible] **non** [illegible] **cometa ipsum** [illegible]
vocatur [illegible] **comam** [illegible] **magis** [illegible]
orientis [illegible] **autem** [illegible] **circuli** [illegible]
tangere [illegible] **ad solem** [illegible]
[illegible] stelle [illegible] loco [illegible] ad locum [illegible]
stella [illegible] vapores [illegible] cometa [illegible]
[illegible] corrupta [illegible]
[illegible]
stella [illegible]
[illegible] ad polum [illegible]
[illegible] cometa [illegible]
[illegible] cometa [illegible] a sole [illegible]
[illegible] stella [illegible] apparet cometa [illegible] a sole [illegible]
articum [illegible] apparet cometa [illegible]
declinat [illegible] apparet cometa [illegible] declinat a sole [illegible]
[illegible]
[illegible] apparet cometa [illegible] sole [illegible] vapores [illegible] sole [illegible]
[illegible] apparet cometa [illegible] declinat ad austrum [illegible]
[illegible]
[illegible] stella [illegible] stella [illegible]
[illegible] ad solem [illegible] apparet [illegible] stella cometa [illegible] declinat ad polum [illegible]
[illegible]
[illegible] ad solem [illegible] apparet cometa [illegible]
[illegible]
[illegible] dictum [illegible] capitulum [illegible]
[illegible]
quando accidit dicere, [illegible] Hec autem separatim primo quando [illegible]
terminus [illegible] **stellare cometa** [illegible]
in celo [illegible] **cometa autem** [illegible]
de [illegible]
[illegible]
[illegible]
[illegible]

Propter cometa potest apparere cum coma [illegible] stella comata [illegible] stella caudata [illegible] barba [illegible] stella barbata

Cometa [illegible]

17

[illegible]

[illegible] Cometa est una stella erratica [illegible]

[illegible] stella erratica [illegible] zodiacum [illegible]

[illegible] Comete [illegible]

Cometa [illegible] zodiacum [illegible]

[illegible] Comete [illegible]

[illegible] Cometa [illegible] stella erratica [illegible]

Adhuc autem [illegible] coma. Sicut autem [illegible]

[illegible] apparet [illegible] sine coma stella [illegible]

[illegible] Coma autem [illegible]

[illegible] visa per [illegible] stellas [illegible] autem [illegible] omnes elevate apparent

super orizontem [illegible] omnibus [illegible] omnibus

[illegible] apud solem [illegible] Comete apparent [illegible]

[illegible] cometa

[illegible] cometa [illegible]

[illegible] stella [illegible]

[illegible] coma [illegible] solis [illegible]

[illegible] Coma [illegible] stella [illegible] comata

[illegible] apparet elevata [illegible] orizonte [illegible]

[illegible] apud solem [illegible]

[illegible] apparet [illegible]

Cometa [illegible] coma [illegible]

[illegible] stella [illegible] coma [illegible] stellas

[illegible] Coma [illegible]

[illegible] Coma [illegible]

[illegible] stella [illegible]

[illegible] Coma [illegible]

[illegible] Cometas [illegible] Cometa [illegible]

[illegible] Cometa [illegible]

[illegible] Cometa [illegible] Coma [illegible]

[illegible] Cometa [illegible] Coma [illegible]

[illegible] Cometa [illegible] stella [illegible] Coma [illegible]

[illegible] Cometarum [illegible] stellarum [illegible]

[illegible] Comete [illegible] stellarum [illegible] stelle [illegible]

[illegible]

[illegible]

[illegible] Cometa [illegible]

[illegible] coma [illegible] stella [illegible]

[illegible] coma [illegible]

Comete [illegible]

[illegible]

[illegible] ad septentrionem [illegible] opinio [illegible] ad septentrionem [illegible] stella
[illegible] cometa [illegible] Martis Veneris [illegible]
[illegible] cometa [illegible] omnes [illegible]
[illegible] stelle [illegible] cometa [illegible]
[illegible]
[illegible] Comete [illegible] Cometa [illegible]

Sed non necesse hoc semper in loco circa articum fit Cometes solum simul et sole oriente et tropicos estivales, magnus enim Cometes stans circa tempus eius qui in achaya terre motu et fluctu [illegible] ab occasibus equinoctialibus orti sunt et ad austrum iam multi facti sunt. Sub principe autem athenis gloriosissimo [illegible] facta fuit cometa stella [illegible] sole oriente et tropicos hyemales, et tempus [illegible] [illegible]

[illegible] Cometa [illegible] sole oriente [illegible]
[illegible] Cometes [illegible]
[illegible] Cometes [illegible]
[illegible] stella cometa [illegible] sole oriente et tropicos [illegible]
[illegible] Cometa [illegible] stella [illegible] sole oriente et
[illegible] Cometes [illegible]
[illegible] Cometes [illegible] sole [illegible]
[illegible] sole oriente et tropicos
hyemales [illegible] Cometa
[illegible]

Comme autem [illegible] dictis [illegible] tempus coma et non circulum attingunt comam [illegible] non solum erraticis sed et fixis [illegible] et illi autem [illegible] et nos vidimus, cane enim que in femore canis stella est habuit comam debilem tamen intendentibus quidem enim in ipsam debilem fieri lumen, [illegible] autem visum venisse plus [illegible]

[illegible] stellarum erraticarum [illegible]
[illegible] stelle [illegible]
[illegible] stella [illegible] cometa [illegible]
[illegible] Canicule [illegible]
[illegible]
[illegible] Cometa [illegible]
[illegible] stella fixa [illegible] cometa [illegible] stella fixa [illegible]
[illegible] cometa [illegible]
[illegible] stellarum [illegible]
[illegible] Canis [illegible] cometas [illegible]

[illegible]

[illegible]

Adhuc autem omnibus que apud nos visi sunt sine occasu disparuerunt in loco super orizonte consumpti paulatim ita ut neque unius stelle delinquerentur corpus neque plurium. Etenim et magna stella de qua prius meminimus apparuit quidem hyeme in gelu et serenitate a vespere sub Asteo principe. Et primo quidem die non apparuit tamquam preoccupata a sole. Sequenti autem apparuit quantum contingit minimum elevatum fuit et mox occubuit. Lumen autem extendebatur usque ad tertiam partem celi velut saltus propter quod vocata fuit via. Ascendit autem usque ad zonam orionis et ibi dissoluta fuit.

[illegible]

Et quod democritus obtinere voluit pro opinione sua, aiens eum apparuisse dissolutis cometis stellas quasdam, hoc autem non aliquando quidem oportebat fieri aliquando non, sed semper. Adhuc autem et egiptii aiunt et planetas et ad seipsas et alias fieri cometas, et nos ipsi vidimus stellam jovis in geminis coeuntem cuidam, et disparentem facientem, sed non cometem fieri.

[illegible]

Hic philosophus ... Democriti ... Democritus ... comete ... [illegible]

[illegible]

Adhuc autem et ex eorum magnitudine. Stelle enim etsi maiores et minores appareant, sed tamen indivisibiles ipse esse videntur. Quemadmodum igitur et si essent indivisibiles tangentes similiter utique facerent magnitudinem maiorem, sic et cum non sit quidem, sed apparent autem indivisibiles et ... videbuntur maiores secundum magnitudinem cometes. Quare quidem igitur de ipsis cause ... non ... sed tamen per hec sufficienter palam est.

[illegible]

Cum autem de inmanifestis sensui putamus sufficienter demonstrasse secundum rationem, si ad impossibile reducionem, ex hiis que nunc apparent existimabit utique aliquis sic de hiis maxime accidere. Capitulum 3

[illegible]

Supponimus enim nobis mundi huius qui est circa terram ... sub lacione ...

De prima parte exhalationis sicce et calide apparuit autem et continui sub ipsa aeris ad multum simul tenduntur terra sub spera et motu circulari lata autem et mota hoc modo quacumque contingit bene durabilis existens igniuntur propter densitatem sicci et dispositionem sydera discurrunt

[illegible]

Similiter in talem condensationem inciderit principium motu superiorum neque ignea ita sit multa valde ut cito et ad multum exuratur neque sit debile ut extinguatur cito sed plus et ad multum. Simul autem et desubtus accidat ascendere bene dispositam exhalationem: hoc fit stella comata. Quemadmodum utique exhalatio exstiterit figurata; si quidem enim undique similiter, cometes; si autem ad longitudinem vocatur pogonias.

[illegible]

[illegible]

stelle lacio

[illegible] Sicut autem ubi latior videtur esse magis [illegible] similiter stelle magis videtur esse. Similiter cum ergo fit velut si ignis in palearum cumulum et multitudinem immittit titionem aut ignis initiat principium modicum videtur cum similiter et sideris diffusus hinc. Cito enim propter aptitudinem dispositionis exhalatio succenditur in longitudine. Si itaque hec maneat et non consumatur [illegible] magis densata exhalatio fiet utique principium lationis consummatio dissolutionis. Tale cometa est stella velut diffusus sideris [illegible]

[illegible]

[illegible]

circa motum consistit conflagracio sic cometes sit hoc, quod [illegible] non cum apud ipsa astra coma sit, sed quemadmodum halo circa solem apparet et lunam aspicientibus, et quamvis circa illa sit condensatus sive aer, ut passio hec fiet sub solis itinere. Sic et coma astris velut halo est. Actum halo quidem fit propter refraccionem, talis colores ibi [illegible] in ipsis [illegible]

[illegible]

Cometes apparet [illegible] per cometes sit [illegible] coma sit apud ipsa astra [illegible] halo [illegible] sole et luna

[illegible]

[illegible] vapor [illegible] coma apparet [illegible] stellas. [illegible] apparet cometa [illegible] ibi [illegible] halonis. [illegible] ista [illegible] halo [illegible] color comete [illegible] Color ipsius halo [illegible] sit per radiorum reflexionem [illegible] color [illegible] apparet [illegible] quid est secundum stellas fiat talis generacio tamen [illegible] latorum et motu Cometarum, quia quidem fiunt stelle. [illegible] autem consistit [illegible] tue [illegible] talis [illegible] consimilat [illegible] refraccionem [illegible] cometarum, ut halo in speculata [illegible] ad [illegible] stellas [illegible] Et non ut dicunt [illegible] ad solem [illegible] sit cometa [illegible] frequens [illegible] stellas

De halo quid est tamen postmodum dicemus [illegible]

De motu Comete [illegible]

[illegible]

[illegible] sive [illegible] stella [illegible] motu [illegible] et [illegible] ad motum aliarum stellarum [illegible] stella [illegible] vapores [illegible] cometa [illegible] stella [illegible] cometa [illegible] stella [illegible] motu celi [illegible]

[illegible] aer [illegible] cometa [illegible] motum celi [illegible] mundi [illegible] motum [illegible] celi. Item [illegible] cometa [illegible] radiorum [illegible] ad stellas [illegible] radiorum [illegible] ad solem vel ad lunam. Item [illegible] cometa [illegible] stella [illegible] radiorum [illegible] ad solem [illegible] stella [illegible] comata [illegible]. De motu comete [illegible] opinio [illegible] apparet [illegible] ista opinio [illegible] comete [illegible] tota [illegible]

[illegible] cometa [illegible] Item [illegible] opinio [illegible] cometa [illegible] motu [illegible] Item [illegible] cometa [illegible] ad motum [illegible] cometa [illegible] aer [illegible] cometa [illegible] aer [illegible] sole. Item [illegible] cometa [illegible] sole [illegible] cometa [illegible] cometa [illegible] solem [illegible] cometa [illegible] Item [illegible] cometa [illegible] stellarum [illegible] stella [illegible] cometa [illegible] Item [illegible] cometa [illegible] cometa [illegible] comete [illegible]

De eo autem quod est de [illegible] igneas consideranda [illegible] argumentum [illegible] putat [illegible] plures [illegible] [illegible] exhalationibus ut non [illegible] in aere [illegible] autem dicemus [illegible] de hac passione [illegible] dicendi [illegible] stelle [illegible] sunt [illegible] notabiliter

Epiciclus [illegible] in superficie [illegible] circuli [illegible] vel orbis [illegible] mundi

Cum autem varios et terminos magnitudine simile quod non sit celestis
ut frequenter fit quod excessus species secundum tempus et secundum magnitudine
[illegible] Cometa [illegible]
[illegible]
[illegible] Cometarum [illegible]
[illegible] Comete [illegible] ventis [illegible]
[illegible] Comete [illegible] calida [illegible]
calida et sicca in magis [illegible] elevata
[illegible] exhalacionis calide [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] Comete apparent [illegible] magis [illegible]
[illegible] ventorum [illegible] — nota
[illegible]
Cometa [illegible] exhalacio [illegible] inflammata [illegible]
[illegible] inflammata [illegible] Cometa [illegible]
[illegible]
[illegible] — nota
[illegible] Comete [illegible] venti [illegible]
[illegible] — nota
[illegible] Cometa [illegible] signum ventorum [illegible]
[illegible] Cometa apparet [illegible] — nota
[illegible] Cometa apparet [illegible]
[illegible] De significatione Comete notandum quod duplex est [illegible] comete [illegible] — Signum futurorum ventorum
[illegible] Comete [illegible]
[illegible] pertinet ad [illegible] pertinet ad astronomos [illegible]
astronomi ponunt [illegible] species Cometarum [illegible] astronomos [illegible] distincta
pro quo advertendum [illegible] Ptolomeus [illegible] 49 [illegible] Cometes [illegible]
[illegible]
[illegible]
[illegible]
[illegible] Sextus vero dicitur matutina seu aurora(?) [illegible]
[illegible] Septimus vero [illegible]
[illegible] Octavus dicitur rosa(?) [illegible] magis [illegible]
Color eius [illegible] Nonus dicitur niger [illegible]
color [illegible] Item notandum [illegible] Cometarum [illegible] — nota
[illegible] Comete [illegible]
magis [illegible] astronomos [illegible] Comete [illegible] — pro quo advertendum
pro quo advertendum quod omnis Cometa [illegible]
[illegible] Cometa [illegible] malo [illegible] Cometa [illegible]
[illegible] malo [illegible]
[illegible] malo [illegible] Cometa [illegible]
Cometa [illegible] Ptolomeus [illegible] — nota
[illegible] Cometa [illegible] Item notandum quod Cometa est signum magnorum
ventorum [illegible] Cometa fit ex exhalacione elevata calida et sicca [illegible] — nota
[illegible] ventorum [illegible] venti [illegible]
exhalacionis [illegible]
[illegible] Item notandum Cometa — nota
[illegible]
[illegible]
[illegible] Item notandum Cometa [illegible] — nota
[illegible] Cometa [illegible]

mag[illegible] et [illegible]
[illegible] et [illegible]
[illegible] mortalitatem pestis [illegible]
[illegible]
bellum
mutationes legum

Contingunt ista stella sple-
dente cometa. Mors [illegible]
urbis raptus fiunt mari-
time [illegible] Regnum mu-
tatur plebs peste fame
cruciatur [illegible] comitor ve-
nit morte cometa. Nam
committitur cum pestis gla-
dius quoque fames

ad maius expellitur [illegible] fit de [illegible] aeris. Item Cometa significat [illegible]
[illegible] quod [illegible] cadunt [illegible]
Item secundo Cometa est signum siccitatis [illegible] ad generationem Comete requiritur [illegible]
[illegible] in elevatione [illegible] Comete [illegible]
[illegible] circa stellas. Item Cometa significat mortalitatem et pestilentias [illegible]
[illegible] aeris [illegible]
[illegible] Item Cometa significat guerras [illegible]
[illegible] Colera [illegible] Colera [illegible] ad
[illegible] Item secundo Cometa significat mortes
bellorum [illegible] Cometa [illegible]
Item [illegible]
[illegible] Cometa [illegible]
[illegible] Cometa [illegible] Item Come-
[illegible]

lapis qui ab aere elevatus cecidit
[illegible]

Cum enim in Ego~~[illegible]~~ fluminis ce-
cidit per diem accidit ante et tunc Cometes stella facta a vespere. Et
circa magnam stellam cometarum sicca erat hiemps et borealis et fluctus propter
contrarietatem ventorum facti sunt. In sinu quidem enim boreas obtinuit, extra
autem auster flabat magnus. Adhuc autem sub principe Nycomacho facta
fuit paucis diebus Cometa circa equinoctialem circulum non a vespere fa-
ciens ortum in ~~[illegible]~~ quo et circa Chorintum spiritus evenit

[illegible] Cometa [illegible]
[illegible] a vento cecidit [illegible]
[illegible] stella Cometes [illegible] vespere [illegible]
[illegible] circa stellam [illegible]
[illegible] venti [illegible]
[illegible] auster [illegible]
[illegible] Cometa [illegible]
[illegible] Cometa significat [illegible]
[illegible] lapis elevatus a vento cecidit [illegible] vespere [illegible]
[illegible] Cometes [illegible] Cometa [illegible] signum venti [illegible]
[illegible] venti valde magnus. Item secundo [illegible]
[illegible] Cometes [illegible]
[illegible] ventorum [illegible]
[illegible] ventorum [illegible]
[illegible] Cometes [illegible]
[illegible] Item secundo
[illegible] Cometes [illegible] principe Nycomacho [illegible]
[illegible] ventorum [illegible] Chorintum [illegible]
[illegible] Chorintum [illegible]
[illegible] venti valde [illegible]

Fiunt autem quod et non fiant multos sepe Cometes et magis extra tropicos
quam intra, causa solis et astrorum motus non solum segregat calidum sed et disgregat
quod consistit. Maxime autem causa est quod plurimum in lactis congregatur regione.

[illegible] Comete [illegible]
[illegible] Cometes [illegible]
[illegible] motus solis et astrorum
[illegible]
[illegible] Cometa [illegible] galaxie [illegible]
[illegible] Cometa [illegible]
[illegible]
[illegible] astrorum [illegible]
[illegible] Cometa [illegible] galaxia [illegible] Cometa
[illegible] galaxia [illegible]

Qualiter autem et propter quam causam fit et quid est lac dicamus iam. Praedicamus autem et de hoc que ab aliis dicta sunt primo [illegible]

[illegible]

Vocatorum enim Pitagoricorum quidam aiunt [illegible] esse [illegible] cum casus astrorum [illegible] sub Phetonte lacione [illegible] circulo [illegible] aiunt [illegible] passionem talem passum esse a lacione [illegible]

[illegible]

Inconveniens autem et non contingere [illegible] si quidem hec est causa, oportebit et zodiacum [illegible] magis esse eum qui lactis [illegible] in ipso fertur erratica et non sol solus. Amplius autem nobis toto celo semper [illegible] passius nisi [illegible] ad lactis celum.

[illegible]

prohibentur a solis radiis; quibus autem obstruit terra ut non aspiciantur a sole, horum esse lumen [illegible]

[illegible] galaxia non apparet [illegible] ... galaxie [illegible] ... [illegible]

Quidam autem terra Anaxagoras et Democritus lumen esse lac aiunt astrorum quorundam. Solem enim sub terra latum non aspicere quedam astrorum. Quecumque quidem aspiciuntur ab ipso, horum quidem non apparere lumen. Faciunt esse lac [illegible] ... Anaxagoras et Democritus dicunt lac esse lumen quorundam astrorum [illegible] ... prohibentur a radiis solis; quibus autem terra obstruit [illegible] ... ut non a sole aspiciantur [illegible] ... Anaxagoras et Democritus [illegible] ... galaxia [illegible]

Adhuc autem [illegible] hoc impossibile lac. Quidem enim idem in eisdem est astris. Aspicit enim maximum circulum sole [illegible] alia que non aspiciuntur [illegible] in eodem manent loco. Oportebat autem transmutato sole transmutari et lac. Nunc autem non apparet hoc factum. Hic philosophus improbat istam opinionem [illegible] ... galaxia [illegible] ... galaxia in eodem loco [illegible]

Adhuc autem sicut quemadmodum ostenditur nunc in hiis que circa astrologiam theorematibus, solis magnitudo maior est quam terre, et distancia multo maior quam astrorum ad terram quam solis, et solis ad terram quam lune. Non itaque longe a terra conus a sole quiescit radiorum, neque utique umbra terre que vocatur nox est apud astra. Sed necesse solem omnia astra aspicere et nulli illorum terram obstare. [illegible]

[illegible] ... distancia [illegible] ... stellarum fixarum [illegible] ... sole [illegible] ... stellas fixas [illegible] ... sol plus

Albertus [illegible] ... opinio [illegible] ... terra [illegible] ... sole [illegible]

Quod galaxia dicitur

[illegible]

Nota

Democritus

[illegible]

Et [illegible]

[illegible] apparet

Nota [illegible]

[illegible]

Si umbra ... lunae cadit ... [illegible] ... [illegible]

[illegible]

... distat a terra quam luna ... sol ... radios ... umbra piramidalis ... [illegible]

... stellas fixas ... [illegible]

... umbra ... [illegible]

... umbra ... lunae ... [illegible]

[illegible]

... valde magna ... distat a terra ... [illegible]

... stellas ... [illegible]

Amplius autem ... quod ... dicunt eius quod lac ...

... ad stellam ... Comata ... [illegible]

... opinio ... galaxia ... via lactea ... [illegible]

... ad solem ... stellam Cometam ... [illegible]

... opinio ista ... stellas ... a solo ... ad solem ... [illegible]

... galaxia ... [illegible]

... stellas ... [illegible]

... stellae ... [illegible]

... alba vel lactea ... [illegible]

... opinio ... Impossibile

autem ... [illegible]

... in eodem signo ... [illegible] ... impossibile ... [illegible]

... [illegible] ... distantia ... [illegible]

... [illegible]

... [illegible]

... opinio ... galaxia ... [illegible]

... galaxia ... [illegible]

... galaxia ... [illegible]

... in galaxia

[illegible] ... Item nota [illegible]

[illegible] galaxia [illegible] radiorum [illegible] a stell[is] ad solem [illegible] galaxia [illegible] celi [illegible]

[illegible] stelle [illegible] in eadem parte celi [illegible] Item [illegible]

Item nota [illegible] visu [illegible] speculum [illegible] speculi [illegible]

[illegible]

Item nota [illegible] stelle [illegible] radiorum [illegible] a stellis [illegible] via lactea [illegible] celi [illegible] galaxia [illegible]

[illegible] via lactea [illegible] Item [illegible] galaxia [illegible] celi [illegible] a sole [illegible] via lactea [illegible] ad solem

Item [illegible] radius [illegible] ab oculo [illegible] a speculo [illegible] radius [illegible] ab re visa [illegible] a speculo [illegible] ad oculum [illegible] fiunt stelle. Adhuc de nocte in aqua [illegible] speculis [illegible] quod [illegible] a stellis visa aut refugi ad solem [illegible] quod [illegible] neque via planetarum [illegible] neque lune [illegible] astrorum neque [illegible] maioris [illegible] ab aliis [illegible] lac[illegible] via lactea [illegible] speculis [illegible] galaxia [illegible] via [illegible] a sole [illegible] a sole [illegible] galaxia ab aliis [illegible] Item nota [illegible] galaxia [illegible] apparere [illegible] radiorum [illegible] a stellis ad solem [illegible] radiorum [illegible] a stell[is] [illegible] orizonte [illegible]. Nos aut dicamus [illegible] nobis [illegible] deum [illegible] quod [illegible] ut motu [illegible] [illegible] et Cometas stellas [illegible] Tale itaque [illegible] intellige [illegible] quod [illegible] [illegible] ab aliquo astrorum [illegible]

Gloss and marginal notes (partly legible): [illegible] pulcra 23 — Nota — delphis — [illegible] — [illegible] galaxia — [illegible] cometa — [illegible] — ab [illegible] — [illegible] ab galaxia [illegible]

circulum. Tunc cum hec ymago comete [illegible] assequitur [illegible] lacteum [illegible]
quemadmodum soli talis [illegible] aeris [illegible] halo appareat dicimus, ita sic sunt
dispositus aer [illegible] astrorum accidit [illegible] accipere [illegible]
[illegible] lacteum [illegible] de quo [illegible] dicit
de galaxia [illegible] opinionum [illegible] galaxie [illegible]
[illegible] galaxia [illegible] declarat [illegible]

[illegible]

[illegible] per comam [illegible] stelle cum maiori [illegible] in illo
loco [illegible] continua plurima et maiora astra [illegible] galaxia [illegible]
[illegible] comata [illegible] ad [illegible] galaxiam fieri [illegible] modum
[illegible] sit cometa [illegible] stella [illegible] Et [illegible]
[illegible] motus
[illegible] motu [illegible] astri [illegible] astra [illegible]
[illegible] motu planetarum [illegible] astra [illegible] apparet cometa [illegible]
[illegible] apparet galaxia [illegible] plurima astra [illegible] apparitionem galaxie [illegible] Item
[illegible] in loco [illegible] plurima astra [illegible] et maiora [illegible]
[illegible] galaxia [illegible]

[illegible] quando [illegible] solis [illegible] planetarum dissolvunt [illegible]
[illegible] Item quando multi Comete [illegible] tropicos fiunt [illegible]
[illegible] autem [illegible] solem [illegible] lunam fit Coma [illegible]
disgregat [illegible] ut [illegible] [illegible] Iste autem circulus in quo
[illegible] apparet [illegible] et maximus [illegible] et [illegible] situ [illegible] ut
multum tropicos excedat [illegible] Adhuc autem locus plenus [illegible] astris
magnis et fulgidissimis [illegible] Et adhuc [illegible] [illegible] autem
[illegible] manifestum [illegible] et semper
habet omnes [illegible] [illegible]
[illegible] circulus lacteus
[illegible] circulus [illegible] zodiaco [illegible] motu
solis [illegible] planetarum [illegible] [illegible] Item quando multi [illegible] Comete fiunt [illegible] tropicos [illegible]
[illegible] sit Cometa [illegible] solem [illegible] lunam [illegible] Sol et luna [illegible] disgregat
[illegible] galaxie [illegible]
[illegible] galaxie [illegible] ad [illegible]
[illegible] Iste circulus in quo [illegible] magis [illegible] in situ ut
multum excedat [illegible] circulos [illegible]
[illegible] Capricorni [illegible] [illegible]
[illegible] Adhuc iste locus [illegible] plenus [illegible] astris [illegible]
[illegible] adhuc [illegible] astris [illegible] astris [illegible]
[illegible] terra [illegible]
[illegible] elevata [illegible] ad [illegible]
fiat apparitio galaxie [illegible] maior [illegible] plurima astra [illegible]
[illegible] stelle [illegible] elevati [illegible] appareat galaxia [illegible]
[illegible] stelle [illegible]
[illegible] planetarum in zodiaco [illegible] elevata
[illegible] galaxia [illegible]
[illegible] zodiaco [illegible] galaxia [illegible] dissolvitur [illegible]
[illegible] galaxia [illegible] zodiaco [illegible] Item [illegible]
[illegible] Comete fiunt [illegible] [illegible] Coma [illegible]
[illegible] solem [illegible] lunam [illegible] via solis [illegible] Cometa
[illegible] Item [illegible] circulus [illegible]
[illegible] maior [illegible] apparet
[illegible] situ [illegible] multum excedat tropicos [illegible] [illegible]
[illegible] in signo geminorum et sagittarii [illegible] tropicos [illegible]
[illegible] Item [illegible] iste circulus apparet [illegible] loco [illegible] plenus
astris [illegible] magnis [illegible] [illegible] valde [illegible] astris.

diffusus quia (cum) ordine, et eo hic continue seminatas, sic quod una apparet congregata,
et illa [illegible] astra sporadica [illegible] [illegible] in [illegible]. Tunc [illegible] et [illegible]
quod [illegible] [illegible] [illegible] stelle magne [illegible] [illegible] et [illegible] celi congregatis
[illegible] a terra et [illegible] galaxia sub eodem loco celi, eo quod [illegible]
stellarum [illegible] in eo loco [illegible] [illegible] congregacionis [illegible]
[illegible] Signum autem est circulum ipsius celi amplius [illegible]
est in alto semicirculo hunc duplatum in hoc enim plura et crebra
sunt astra quam in alio. [illegible] altam [illegible] clara [illegible] ipse
astrorum lacteum. Si enim et in hoc circulo sit in quo plurima [illegible]
astrorum, ipsius circuli in quo magis videtur spissa esse et maxime
et multi [illegible] astrorum hanc visionem consummare quemadmodum
[illegible] passionem. Considerare autem circulum et que in ipso astra
et subscriptorum. Sporadica aut [illegible] sic quid in speram non
est ordinatam, quod nulla [illegible] figura [illegible] [illegible]
[illegible] ad [illegible] aut respicientibus est palam. In solo enim
hoc circulorum medio plena talibus astris sunt, in aliis autem
deficiunt manifeste [illegible]. Hec [illegible] probat [illegible] [illegible] signum [illegible]
[illegible] [illegible] dispersum astrorum illius circuli. Considerare autem [illegible] ambe
partes sunt [illegible] Signum [illegible] [illegible] [illegible] lactee [illegible]
plures et magis [illegible] illius [illegible] altero semicirculo [illegible] duplicatum [illegible]
et [illegible] duplatum [illegible] stellarum, quod in hoc semicirculo sunt plura et crebra astra.
[illegible] in alto semicirculo [illegible] clara [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] astra. Si enim [illegible] hoc celo sit lac [illegible] videtur [illegible] plurima [illegible]
[illegible] [illegible] ipsius celi [illegible] lac in quo [illegible] astra magis spissa [illegible]
et multi [illegible] astrorum. Autem visionem [illegible] lacteum astrorum [illegible]
[illegible] [illegible] illius apparicionis lactis. [illegible] [illegible]
[illegible] illius circuli [illegible] circuli aut lactis [illegible] [illegible] [illegible] astra.
[illegible] in ipso [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] astra sunt [illegible] sporadica [illegible] ipsa ordinata in [illegible] [illegible] in [illegible]
[illegible] [illegible] in [illegible] [illegible] [illegible] astra [illegible]
[illegible] ordinata ad [illegible] [illegible] in [illegible] [illegible] [illegible]
[illegible] in hoc [illegible] solo [illegible] stellarum celi loca sunt plena [illegible]
astris. In aliis autem circulis loca [illegible] deficiunt [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dixit [illegible]
[illegible] [illegible] apparet lac sunt multa astra et [illegible] vaporem [illegible]
[illegible] [illegible] [illegible] in [illegible] semicirculo illius circuli [illegible] [illegible] apparet
lac, sunt stelle in duplo plures et [illegible] [illegible] [illegible] [illegible] magis,
[illegible] in [illegible] circulo apparet [illegible] ordo stellarum, ita quod in [illegible] semicirculo [illegible]
[illegible] [illegible] duplicatus, [illegible] autem semicirculo [illegible] [illegible] in ipso [illegible]
multo maior quam in [illegible]. Si [illegible] [illegible] stellarum in [illegible] parte celi
apparet maior claritas luminis. Tunc [illegible] [illegible] [illegible] multitudo stellarum
[illegible] in ipso celo [illegible] vapores ad apparicionem lactis [illegible] [illegible]
[illegible] [illegible] [illegible] stellarum apparet via lactea [illegible]
[illegible] [illegible] tangit quod astra in [illegible] celo sunt disposita. [illegible]
astra [illegible] sporadica [illegible] [illegible] [illegible] seminata [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
disposita [illegible] [illegible] alio vel aliquo [illegible] [illegible] astra [illegible]
in zodiaco [illegible] ordinata [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] ita distantia [illegible] [illegible] [illegible]

debitus ordo [illegible] apparet scilicet densata stellarum. Et alia que sunt in galaxia stellata [illegible] stellata que [illegible] appare [illegible] apparet scilicet circa stellas. [illegible] alia loca [illegible] apparet [illegible] in Almagesti libro [illegible] capitulo [illegible] galaxie [illegible] Ptolomeus

[illegible] a pedibus geminorum [illegible] sagittarium [illegible]

[illegible] in [illegible] loco [illegible]

Quod autem sequendum et de apparendo cometas acceptamus causam.

[illegible] et de lacte eodem modo [illegible] aut ibi circa [illegible] passio coma [illegible] hec circa [illegible] fieri candidum [illegible] hic philosophus [illegible] galaxie [illegible] de apparentia cometarum acceptamus causam [illegible] probabiliter [illegible] de lacte [illegible] in cometa [illegible] coma [illegible] passio [illegible] astrorum [illegible] passionum [illegible] lacte [illegible] circuli [illegible] stellas [illegible] causa [illegible] de cometa [illegible] eodem modo [illegible] galaxia [illegible] cometa [illegible] stella [illegible] astrorum [illegible] galaxia [illegible]

Est autem hac, ut est dicere velut diffinitur maximi circuli propter segregationem coma. Propter quod admodum prius diximus non multi neque sepe fiunt comete, quia continue segregata est et segregatur semper in unaquaque periodo in hunc locum semper talis consistentia.

[illegible] hic philosophus diffinit galaxiam. Et primo [illegible] epilogat dicta de galaxia [illegible] propter quod [illegible] velut diffinitio [illegible] coma maximi circuli propter segregationem [illegible] Et propter hoc [illegible] non fiunt multi comete, neque sepe fiunt comete [illegible] continue [illegible] cometa [illegible] segregatur in hunc locum galaxie [illegible] periodo [illegible] circulationem [illegible] diffinitione galaxie [illegible] via lactea [illegible] stellarum elevata [illegible] coma [illegible] flamma [illegible] cometa [illegible] stellarum [illegible] de factis [illegible] in eo qui circa terram mundo [illegible] de distinctione [illegible] astrorum et ignita flamma. Ad hunc autem de cometis et de lacte [illegible] passiones apparentes circa locum hunc. Hic philosophus epilogat dicta de galaxia [illegible] terram [illegible] celi. Et [illegible] de flamma ignita et de cometis et de [illegible] lacte [illegible] passiones apparentes [illegible] in hunc locum [illegible]

De loco autem ponente secundo post hunc, primo autem circa terram dicamus. Est enim locus hic aque et aeris et accidentium circa eam que sursum quidem. Sumimus autem et horum principia et causas omnium similiter.

Tractatus 2us in quo philosophus intendit determinare de [illegible] et [illegible] in hunc modum [illegible] philosophus determinat de [illegible]

[illegible] in regione suprema ex exalacione calida et sicca [illegible] [illegible] hic [illegible] [illegible] [illegible] que [illegible] in regione aeris [illegible] [illegible] ex vapore humido et a [illegible] calido [illegible] in [illegible] calidi [illegible] [illegible] [illegible] [illegible] ex vapore calido et humido in generali [illegible] [illegible] pluvia [illegible] [illegible] elevato [illegible] humido [illegible] ubi [illegible] aut [illegible] in duos [illegible] [illegible] [illegible] post hec [illegible] supremam regionem aeris [illegible] [illegible] [illegible] in media regione aeris vel [illegible] [illegible] vapore humido in regione media vel [illegible] Item nota [illegible] ex media regione [illegible] post regionem supremam [illegible] [illegible] [illegible] vocat [illegible] [illegible] [illegible] [illegible] ad [illegible] aeris vel [illegible] alta [illegible] [illegible] Item nota [illegible] [illegible] in [illegible] loco [illegible] [illegible] [illegible] malia [illegible] [illegible] effective [illegible]

...humidi et ut motus et principium et finis circulus in quo manifeste solis latio, disgregans et congregans per fieri prope aut longius causa generationis et corruptionis est. [illegible] hic [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] generationis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ibi manente [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ut manens [illegible] [illegible] [illegible] loco solis [illegible] [illegible] [illegible] vapores [illegible] [illegible] [illegible] pluvia [illegible] [illegible] [illegible] [illegible] sol [illegible] [illegible] in zodiaco [illegible] [illegible] [illegible] [illegible] vapore humido in media regione vel [illegible] [illegible] vaporem humidum elevat [illegible] [illegible] [illegible] ex vapore humido in [illegible] regione [illegible] sol [illegible] in zodiaco [illegible] [illegible] Item nota sol [illegible] [illegible] elevat [illegible] [illegible] [illegible] vapores elevatos [illegible] in nube vel in pluvia [illegible] sol [illegible] [illegible] [illegible] [illegible] [illegible] Item nota [illegible] [illegible] sol in longe vel [illegible] [illegible] [illegible] sol [illegible] in zodiaco ad nos accedit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corruptionis [illegible] [illegible] [illegible] [illegible] [illegible] recedente vero sole [illegible]

Manente autem terra quod circa ipsam humidum a radiis et ab alia que desuper caliditate vaporans fertur sursum. [illegible] hic [illegible] declarat [illegible] [illegible] manente autem terra [illegible] humidum [illegible] circa ipsam vaporans a radiis et ab alia caliditate [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a terra [illegible] [illegible] a calore solis et aliorum astrorum [illegible] [illegible] [illegible] ex vapore humido in regione aeris [illegible] [illegible] [illegible]

Caliditate autem que duxit sursum relinquente et hac quidem dispersa ad superiorem locum hac autem extincta propter suspendi longius in aere [illegible] super terram consistit iterum vapor infrigidatus propter derelictionem caloris et propter locum et fit aqua ex aere facta autem iterum fertur ad terram. [illegible] hic [illegible] [illegible] modum generationis [illegible] in [illegible] [illegible] [illegible] declarat [illegible] [illegible] [illegible] [illegible] [illegible] modum [illegible]

[illegible] [illegible] pluvia

[illegible]

Quod ex aqua exalatur vapor, quod autem ex aere in aquam nubes. Caligo autem nebule decidentia eius que in aquam concretionis. Est autem caligo velut nebula sterilis.

[illegible]

Efficit autem circulus iste imitans solis circulum. Simul enim cum ille ad plagas permutat, et iste sursum et deorsum. Oportet autem intelligere hunc velut flumen fluentem circulum sursum et deorsum communem aeris et aque. Prope quidem enim existente sole vaporis sursum fluit flumen. Elongato autem aque deorsum. Et hoc indesinens volt fieri secundum ordinem. Quare si quid enigmatizabant oceanum priores forte utique hunc flumen dicebant.

[illegible]

Circulum fluentem circa terram hic philosophus ostendit modum generationis talis [illegible] qui a communi dicitur circulatio generationis humidae impressionis [illegible] motu circulari solis [illegible] accessus et recessus [illegible] motus solis secundum approximationem ad plagas [illegible] ad septentrionem vel meridiem [illegible] humidae impressionis [illegible] deorsum et hoc declarat dicens [illegible] circulum [illegible] impressionis [illegible] deorsum [illegible] circulum aquae [illegible] aeris [illegible] fiunt [illegible] flumina [illegible] et sole [illegible] plurimi vapores [illegible] a terra [illegible] fiunt [illegible] per virtutem solis attrahentem [illegible] elongato sole [illegible] infrigidationem vaporis elevati fluunt deorsum [illegible] circulus [illegible] fere [illegible] locuti sunt [illegible] fluere circulum [illegible] circa terram [illegible] est [illegible] circulatio fit [illegible] humidae impressionis [illegible] plagas fit [illegible] impressionis humidae [illegible] ad plagam septentrionalem [illegible] sol [illegible] fit [illegible] humidae impressionis [illegible] deorsum [illegible] sole [illegible] ad signa septentrionalia [illegible] plurimi vapores [illegible] vapores fluunt [illegible] elongatur [illegible] elevati [illegible] ad nos [illegible] fit [illegible] circulationem [illegible] impressionis humidae [illegible] flumina [illegible] fluenti [illegible] circa terram [illegible] humidae impressionis [illegible] est [illegible] **Elevato autem humido semper propter calidi virtutem et iterum lato deorsum propter infrigidationem ad terram propter nomina impressionibus imponunt ex quibusdam differentias ipsarum. Cum enim quidem secundum modica feratur psecades. Cum autem secundum maiores partes, pluvia vocatur** [illegible] pluviae [illegible] plus dicit modum generationis pluviae [illegible] et pruina [illegible] humido propter virtutem caloris [illegible] humido iterum [illegible] ad terram propter infrigidationem [illegible] impressionibus [illegible] ex hoc humido imponunt [illegible] quibusdam differentias ipsarum [illegible] humido [illegible] partes [illegible] impressio [illegible] vocatur psecades i. pluvia minuta vel guttulae [illegible] humido [illegible] partes maiores [illegible] pluvia [illegible] pluvia [illegible] humido [illegible] solis et calidi [illegible] motu solis elevatur [illegible] in loco frigido [illegible] ad terram [illegible] in pluviam [illegible] descensus fit [illegible] impressio [illegible] humido [illegible] partes [illegible] cadere guttae [illegible] impressio [illegible] vocatur psecades [illegible] cadens [illegible] humido [illegible] magnas partes [illegible] vocatur pluvia [illegible] nomine [illegible] impressio pluvia [illegible] appellatur [illegible] **Roris autem quod de die evaporat, quantumque propter paucitatem sursum ducentis ipsum ignis ad eam quae elevatur aquam iterum deorsum latum cum infrigidatum fuerit nocte vocatur ros et pruina** [illegible] philosophus determinat de generatione roris et pruinae [illegible] humido evaporat [illegible] calore [illegible] vaporem [illegible] ad vaporem [illegible] calorem [illegible] motu iterum deorsum [illegible] nocte [illegible] ros vel pruina [illegible] vocatur [illegible] vel pruina

Ca[illegible] 2m

[illegible]

fit tali modo [illegible] q[uia] a[qu]a [illegible] humid[um] evaporat [illegible] in quo est aq[ue] calid[us] [illegible] inveniens [illegible] solis elevat[ur] [illegible] calid[us] in spacium ad acquirendu[m] [illegible]

[illegible] humid[um] elevat[ur] multu[m] alte sic q[uod] pervenit ad regione[m] [illegible] sunt,

vel ad regione[m] supremam [illegible] advenit nocte [illegible] humid[um] [illegible] frigus noctis [illegible]

et cadit deorsu[m] [illegible] vel pruina etc. || Pruina quidem est humid[um] vapor[is]

congelatum [illegible] in aqua gutta[m] [illegible], fit aut[em] hyeme et mag[is]

in hyemalibus locis etc. [illegible] declarat modu[m] generac[i]o[n]is roris et pruine [illegible]

[illegible] ista pars in tres partes [illegible] 2° declarat loca generac[i]o[n]is roris et

pruine [illegible] 3° declarat [illegible] tempus et locum generac[i]o[n]is roris et [illegible] [illegible] 3a i[bi]

[illegible] roris pruina [illegible] in duas [illegible] 2° comparat generac[i]o[n]em roris et pruine

[illegible] [illegible] in duas [illegible] generac[i]o[n]em pruine [illegible] 2° roris [illegible]

ros aut[em] etc. [illegible] pruina [illegible] vapor congelat[us] [illegible] in aq[ua]

et pruina fit in hyeme [illegible] in loc[is] mag[is] frigidis [illegible] hoc [illegible] vapor

elevatus [illegible] modicu[m] [illegible] non elevat[ur] nimis alte [illegible] congelat[ur]

[illegible] gutta[m] [illegible] pluvia [illegible] fit pruina [illegible] [illegible] pruina

cadens sup[er] lapides et ligna [illegible] vapor a[qu]a[rum] congelatus [illegible]

por [illegible] subtilior vapor ex quo fit pluvia [illegible] frigus non ta[m] cito penetra[n]

[illegible] congelando [illegible] pruina [illegible] fit in t[em]p[or]e vel in loco valde calido

[illegible] vel loco frigido [illegible] hyeme fit pruina in loc[is]

[illegible] ut [illegible] in habitac[i]o[n]e [illegible] Ros aut[em] cu[m] [illegible] fuit

in a[er]e vapor [illegible] ut [illegible] ductu[m] neq[ue]

fit frigus ut congeletur vapor [illegible] q[uod] aut[em] locus calidior

aut tempus sit [illegible] aut modu[m] generac[i]o[n]is [illegible] ros fit cu[m]

vapor [illegible] in a[er]e et cu[m] non [illegible] fit calor ut vapor [illegible]

[illegible] fit [illegible] frigus [illegible] vapor congel[atur] [illegible] vel loc[us] generac[i]o[n]is

roris fit calidior loco generac[i]o[n]is pruine [illegible] tempus sit calidius [illegible]

Notandu[m] [illegible] generac[i]o[n]e roris fit [illegible] vapor elevatus [illegible] [illegible]

valde subtil[is] [illegible] loci vel temporis non fit calid[us] [illegible]

[illegible] vapor [illegible] non fit [illegible] frigus [illegible] vaporu[m] congelandu[m] [illegible] fit [illegible]

[illegible] ros [illegible] vapor etc. [illegible] fit cu[m] magis ros in temperie et in tem

peratis locis. Pruina aut[em] sicut dictu[m] est [illegible] palam cu[m] ex

vapor[e] calidior[e] [illegible] cu[m] elevat[ur] adhuc [illegible]

amplioris frigiditatis ad ip[su]m coagulan[dum] [illegible] comparat generac[i]o[n]e[m] roris

et generac[i]o[n]e[m] pruine [illegible] 1° ponit [illegible] 2° ponit [illegible] fuit aut[em] [illegible]

[illegible] fit cu[m] ros mag[is] in t[em]p[or]e [illegible] et in loc[is] temperat[is] [illegible] pruina

[illegible] fit [illegible] fit in [illegible] loco frigido [illegible] vapor ex quo fit pruina

[illegible] calidior [illegible] vapor [illegible] elevat[ur]

[illegible] frigiditas [illegible] coagulat[ur] et congelato [illegible]

[illegible] ad sui coagulac[i]o[n]e[m] [illegible] ad roris generac[i]o[n]e[m] [illegible] est notandu[m] q[uod]

q° 28 [illegible] ros et pruina [illegible] 2° [illegible] dicit q°

ad sui generac[i]o[n]e[m] [illegible] in t[em]p[or]e calido [illegible] et frigido [illegible]

in loco [illegible] temperato [illegible] in t[em]p[or]e et loco frigidis [illegible] et pruina

[illegible] in t[er]ra [illegible] ad generac[i]o[n]e[m]

pruine [illegible] roris [illegible] vapor ex quo fit pruina [illegible] calid[us] [illegible]

[illegible] plus [illegible] congelac[i]o[n]e[m] [illegible] vapor etc. [illegible] Fiunt aut[em]

ambo serenitate et tranquillitate [illegible] neq[ue] [illegible] elevabu[n]tur non

[illegible] serenitate neq[ue] [illegible] potere[n]t [illegible] vento flante [illegible]

[illegible] comparat [illegible] ponit [illegible] [illegible] ros et pruina [illegible]

serenitate et tranquillitate [illegible] non [illegible] serenitate [illegible] elevabu[n]tur vapores ex quibus

q° 29 fit ros vel pruina [illegible] vento flante [illegible] tales vapores [illegible]

in [illegible] q° 29 [illegible] ista [illegible]

[illegible]

Signum autem quod sint hec predicta est non longe suspendi vapor. In montibus enim non fit pruina. Causa autem una quidem hec quod sursum duci consubmissis et humectis locis [illegible] velut [illegible] omnis portans magis supra [illegible] calliditas [illegible] quia [illegible] non potest elevare ipsum ad multam locorum altitudinem, sed prope dimittit ipsum. Alia autem quod fluit maxime aer fluens in altis, qui dissolvit consistentias talium.

[illegible]

Fit autem ros ubique austrinis et non borealibus, preterquam in Ponto. Ibi autem contrarie: borealibus quidem enim fit, austrinis autem non fit. Causa autem similis sicut quod fit in tempore [illegible] hyeme autem non. Auster enim temperiem facit, boreas autem hyemem. Frigidus enim. Quare extinguit ex hyeme exalationis [illegible]

[illegible]

extinguit caliditatem. In ponto autem auster quidem non sic facit tem-
periem ut fiat vapor; boreas autem propter frigiditatem antiparistasi
faciens calidum congregat, quare plus vaporat magis. Saepe autem
hoc et in exterioribus locis est videre. Etenim vaporant cum putei bo-
realibus magis quam austrinis; boreales quidem extinguunt, antequam
consistet aliqua multitudo; in austrinis autem sinunt congregari exhalationem.

[illegible]

statim flatu tortuoso flatu efficitur et hoc per frigus quatenus non impedit elevari vapores
per humidum aut angustus humidos in ipsis et per flatum tortuositate [illegible] corpus et facit
fieri magis roris vel pluvie. Item notandum quod [illegible] eadem est [illegible] de
vento quod dicitur de [illegible] per Albertum [illegible] ex parte qua est [illegible] medium [illegible] adia-
cente terras vehementer [illegible] et adunata et auster [illegible] excellentes
calefit et [illegible] et efficitur [illegible] flatus et ideo [illegible] introducit temperiem
quae requiritur ad generationem roris. Sed ab illa parte quae est versus aquilonem [illegible]
[illegible] multa flumina et vocatur ventus ab illa parte efficitur humidus et [illegible] in superficie
et flatus tortuosus et [illegible] inducit temperiem quae sufficit ad generationem roris. Item
notandum. Alii reddunt istam causam quod in Ponto sunt alti montes ex parte aquilonis
et ideo flante aquilone austro ibi [illegible] calidus quod impedit generationem roris. Sed
flante aquilone [illegible] temperiem propter congregationem caloris in vallibus a frigore
circumstante. Alii vero dicunt quod illa regio est frigidissima et ideo auster non sufficit facere
temperiem. Sed ventus boreas [illegible] frigiditate loci taliter [illegible]
[illegible] per antiperistasim temperiem [illegible]. Sed prima causa videtur esse
melior aliis. Item Philosophus dicit in littera quod in locis [illegible] aliis a Ponto [illegible]
[illegible] flante vento boreali [illegible] magno frigore et [illegible] per anti-
peristasim. [illegible] dicit quod [illegible] in talibus locis [illegible] flante
vento boreali. Item Philosophus [illegible] in talibus locis ventus borealis
[illegible] taliter vapores elevati [illegible] et vapor debet
[illegible] Sed [illegible] de vento austro [illegible] [illegible] de
pluvia est notandum quod media regio aeris [illegible] pluviam [illegible] ubi [illegible]
[illegible] pluvia [illegible] pluvie [illegible] in media regione aeris [illegible] causa plu-
vie [illegible] calor solis et [illegible]
[illegible] vapores [illegible] pluvie [illegible]
vaporem [illegible] pluvia [illegible] vapor
[illegible] regionis aeris [illegible] condensari [illegible]
[illegible] fit pluvia [illegible]
[illegible] Item notandum [illegible] media regione aeris [illegible] pluvia [illegible]
[illegible] media regione vapor elevatur [illegible]
aer [illegible] calor solis [illegible] per antiperistasim [illegible]
[illegible] pluvia [illegible] Item [illegible] vapor
[illegible] elevatur [illegible] media regione aeris [illegible]
[illegible] calor [illegible] vapor [illegible] calore [illegible]
[illegible] calor [illegible] vaporem [illegible]
[illegible] vapor [illegible] calorem [illegible] per antiperistasim [illegible]
[illegible] vapor [illegible] vapor [illegible] pluvia. Item
notandum quod [illegible] pluvie [illegible]
pluvia vel [illegible] vapor [illegible]
a frigiditate medie regionis aeris [illegible] pluvia [illegible]
[illegible] vaporis a media regione aeris. [illegible] quod ista pluvia
fit [illegible] guttarum ab aqua [illegible]
[illegible] pluvia vel [illegible] calida [illegible]
[illegible] a [illegible] guttule [illegible]
[illegible] Item [illegible] aquarum. Et
[illegible] pluvie [illegible] vapores elevati
[illegible] vapor [illegible] in nube
[illegible] regionem aeris [illegible]
[illegible] pluvia [illegible] Item notandum [illegible] vaporum
[illegible] in hyeme [illegible] in estate [illegible] colera [illegible] in hyeme
[illegible] vapores [illegible] flegmata [illegible] in
estate [illegible] vapores [illegible] terrestre
in corporibus [illegible] colera [illegible] Item notandum quod [illegible]

ex vaporibus elevatis fiunt nubes [illegible] pluvia [illegible] fit [illegible]
et iste nubes dissolvuntur a vento vel aliunde [illegible] pluvia et tunc
[illegible] nubes magis [illegible] nubes [illegible] vel [illegible]
[illegible] stellas [illegible]

no Pluvie [illegible] guttae guttatim [illegible] pluvie [illegible] guttas maiores [illegible] Item queritur

[illegible]

no Item queritur [illegible] guttae [illegible]

[illegible]

no pluvia [illegible] Item queritur [illegible] pluvie [illegible]

[illegible]

de colore pluviarum — no — Item queritur [illegible] pluvie [illegible]

[illegible]

modo [illegible] — Item queritur [illegible]

[illegible]

Item queritur [illegible]

[illegible]

Item queritur [illegible] pluvie [illegible] vapores [illegible]

[illegible]

Item notandum [illegible] vapor [illegible] pluvia [illegible]

[illegible] nivis [illegible] Item notandum ros [illegible] in loco [illegible]

[illegible] vapor [illegible] Item notandum [illegible] ros [illegible]

[illegible] Item notandum [illegible] ros [illegible] Item notandum [illegible]

[illegible] Item notandum [illegible] ros [illegible] Item notandum [illegible] ros [illegible]

[illegible] Item notandum [illegible] Item notandum [illegible] vapor [illegible]

[illegible]

[3] Ipsa autem aqua non coagulatur quemadmodum in loco circa
nubes, sed cum ea veniunt corpora constantia propter infrigidationem.
aqua et nix et grando; horum autem duo contingunt proportionabiliter
et propter easdem causas fiunt et insunt, differunt autem magis
et minus et multum et paucum. Nix enim et pruina idem et plus
et ros. Sed hoc quidem multum, hoc autem paucum. Pruinia quidem
cum ex multo vapore fit infrigidato; similis autem causa et locus
multus et tempus conveniens in quo colligitur et ex quo paucus;
autem ros effimerus cum consistens et locus parvus manifestat;
autem et generatio eius velox et pruina multa. Similis autem et
pruina et nix. Cum enim congelatur nubes nix est. Cum autem

ephimeros

ephimera [illegible] febris brevis

[illegible]

Vapor primus propter quod aut tempore aut regionis frigidum est frigide non enim propter coagulatur adhuc multa inest calidi si non superbiberet ignis in nube enim adhuc inest multum calidi residuum ignis qui evaporare facit ex terra [illegible]

[illegible] nivis et grandinis [illegible] nivis [illegible] grandini [illegible] grandinis [illegible] nivis et grandinis [illegible] grando [illegible] pluvia [illegible] nivis [illegible] grandinis [illegible]

Effimerus [illegible]

[illegible] pluvia [illegible] aqua [illegible] calidi [illegible] pluvia [illegible] nivis vel pluvie [illegible] pluvia [illegible] vapor [illegible] pluvie [illegible]

Textus 32 [illegible] nivis et grandinis [illegible] nivis et grandinis [illegible] coagulatio aque [illegible] pluvia [illegible] pluvia [illegible] vapor [illegible] nivis [illegible]

Vapor elevatus [illegible] una magna nubes [illegible] vapor [illegible] non tam alte elevatus congelatur [illegible] in regione frigida [illegible] tempore [illegible] vapor [illegible] congelari [illegible] calidi [illegible]

Grando autem ibi quidem fit, [illegible]

In propinquo autem terre vaporante hic deficit. Quemadmodum enim diximus, ut quidem ibi nix, hic fit pruina; ut autem ibi imber, hic fit ros; ut sicut ibi grando, hic non eorum respondet simile. Causa autem cum diximus de grandine erit manifesta. [illegible] grando fit in loco medio [illegible] vaporibus [illegible] grandinis [illegible] in loco medio [illegible] pruina fit [illegible] in loco [illegible] in superiori loco [illegible] grandini in loco [illegible] causa [illegible] dicemus [illegible] grando [illegible] in medio regionis aeris [illegible]

Oportet autem accipere simul et accidentia circa generationem ipsius quecumque non seducunt et putata esse irrationabilia. [illegible] primo ponit [illegible] 2o inducit [illegible] dubitationes [illegible] grandinis [illegible] 3o ponit [illegible] solutiones [illegible] opiniones [illegible] grandinis [illegible] accidentia [illegible] grandinis [illegible]

Est quidem enim grando cristallus; coagulatur autem aqua hieme. Grandines autem fiunt vere quidem et autumpno maxime, deinde et temporibus fructuum, hieme autem raro, et cum minus frigus sit. [illegible] loci nives autem in frigidioribus. [illegible] grando [illegible] cristallus, id est aqua congelata [illegible] grandines [illegible] aqua autem congelata hieme [illegible] estate [illegible] grandines [illegible] grando est aqua congelata [illegible] aqua non congelata [illegible] tempore valde frigido [illegible] grandines [illegible] autumpno et vere [illegible] estati [illegible] hieme [illegible] cristallus [illegible] aqua congelata [illegible] grando [illegible] sit aqua congelata dicit [illegible] congelata [illegible] cristallus [illegible] grando [illegible] congelata [illegible] cristallus [illegible]

Inconveniens autem et coagulari aquam in eo qui sursum loco. Neque enim congelari esse possibile antequam facta sit aqua, neque aquam nullo tempore possibile manere elevatam contineri. [illegible] aqua congelari in eo loco [illegible] regione aeris [illegible] grandinem esse congelatam [illegible] aqua [illegible] elevata manere ullo tempore [illegible] sit facta [illegible] aquam [illegible] elevata manere ullo tempore

[illegible]

Amplius autem quemadmodum evaporationes sursum quando insident propter puritatem et motum aut in aere sicut et in aqua et terra. Et autem propter puritatem parum supernatat sic et in aere. Convenientibus autem multis partibus magis deorsum feruntur evaporationes. Hoc autem non contingit fieri in grandine. Non enim copulatur congelata quemadmodum unda. Palam ergo quod sursum tanta aqua maneret. Non enim utique congelata fuisset tanta.

[illegible]

Sunt enim quidem et mediae passiones circa terminum et generationis ad propinqua sunt nubes in superiori loco magis quam terre. Propterea quod desinunt exhalationes radiorum a terra venientes ubi aqua coagulatur. Propter quod aestate magis et calidis regionibus fieri grandines. Cum amplius calidum sursum pellit a terra nubes.

[illegible]

nubes a terra sursum. Quia [illegible] terram [illegible] aque [illegible] procedit ad [illegible] primam [illegible]
grando sit aqua congelata [illegible] accidit et [illegible] grando [illegible] in [illegible] frigido
[illegible] regionum frigida negat [illegible] et dicunt [illegible] in estate et [illegible] regionibus ca-
lidis [illegible] in estate [illegible] regionibus calidis [illegible] magna calidi-
tas [illegible] nube aquosa sursum ad [illegible] et tunc [illegible]
ibi congelata grandinem [illegible] **Accidit autem in valde altis minus**
fieri grandinem; tamen oportebat quemadmodum et nunc videmus
in altis maxime terram. [illegible] solum [illegible]
[illegible] Primo dicit [illegible] Accidit [illegible] grandinem in locis valde
altis [illegible] istam [illegible] opinionem [illegible] terram
[illegible] maxime altis. Quia [illegible] Ratio [illegible]
[illegible] grando [illegible] fieret in locis maxime altis [illegible]
[illegible] calido [illegible] in [illegible]
[illegible] grandinem in locis valde altis [illegible] in altis locis
Adhuc autem sepe vise sunt nubes delate cum sono multo secus terram,
ut terribile esset audientibus et videntibus tamquam futuro aliquo ma-
iori; et aliquando et sine sono talibus visis nubibus grando fit multa et
magnitudine incredibilis et figuris non rotunda, propterea quod non mul-
to tempore fit latio ipsius, tamquam prope terram facta coagulatione, sed
non sicut illi aiunt. [illegible] Adhuc autem
sepe [illegible] vise nubes grandinose deducte [illegible] terram cum multo sono [illegible]
ut esset valde terribile audientibus et videntibus tamquam aliquo [illegible] futuro [illegible]
et [illegible] talibus nubibus [illegible] sono fit multa grando et [illegible] in magnitudine et
non rotunda [illegible] propterea quod latio ipsius non fit in multo tempore et tamquam
congelatione facta prope terram [illegible] illi in [illegible] Quia [illegible] nota
[illegible] fiet grando in loco [illegible]
a terra [illegible] data [illegible] in [illegible] sepe [illegible] vise [illegible]
magne nubes [illegible] in loco [illegible] faciebat [illegible]
[illegible] audientibus et videntibus [illegible] sono [illegible] talibus
nubibus [illegible] grandines [illegible] sit [illegible]
[illegible] rotundam [illegible] congelacionem [illegible] aqua [illegible]
[illegible] per magnam distanciam [illegible] longum tempus [illegible]
[illegible] rotunditatem [illegible] grando
[illegible] illi [illegible] Deinde cum [illegible]
[illegible] grandinis [illegible]
grando fit [illegible] caliditas [illegible]
ad locum [illegible] aeris [illegible] est [illegible]
[illegible] spatia aeris [illegible] autem aqua [illegible] ab alto [illegible]
[illegible] grando [illegible] **Necessarium**
autem et maxime causam coagulacionis maxime fieri grandines et cristallus
cum grando et [illegible]. Magne autem sunt et figuris non
rotunde; hoc autem signum quod cito sit congelata prope terram et late enim
de longe prope fieri longe coagulacionem et sunt figura et rotunde
et magnitudine [illegible]. Quodquidem igitur non propter compelli in superiorem
locum frigidi coagulacio accidit palam est. [illegible]
[illegible] Necessarium est fieri maximas grandines ob causam coagulacionis [illegible]
[illegible] cristallus id est aqua congelata [illegible]
[illegible] grandines [illegible] rotunde [illegible] autem [illegible]
grandines [illegible] congelata [illegible] terram [illegible] grandines [illegible] longam distanciam [illegible]
longe [illegible] coagulacionem [illegible] rotunde [illegible] nubes in [illegible]

Tunc in secundo epilogat dicens. Manifestum est quod coagulatio non accidit propter expelli vapores in locum frigidum superiorem // Ante lectionem nota quod [illegible] sic [illegible]
Si ista solucio esset vera, tunc in locis magis altis deberent fieri maiores grandines
[illegible] ut dicitur in litera, sed [illegible] fieri maiores grandines [illegible] magis [illegible] congelacio
[illegible] maiores grandines magne [illegible] rotunde [illegible]
[illegible] congelatio fit propter terram [illegible] longe a terra [illegible] fierent [illegible] longe
a terra [illegible] propter motum [illegible] in aere [illegible] deperderent [illegible] fierent minores
[illegible] alique sunt grandines tales sunt [illegible]
sunt minores. Sed quoniam videmus quod fit antiperistasis calido et frigido invicem
propter quod in estatibus frigida infra terram et calida in gelu. Hoc oportet
putare et in eo quod sursum loco fieri. Quare in calidioribus temporibus
antiperistasim passum intra frigidum propter circumstans calidum
aliquando cito aquam ex nube facit. Propter quod et gutte multo maiores in
calidis fiunt diebus quam in hyeme et aque labroriores. Labrores
quidem dicuntur cum subito simul, tote magis subito autem propter celeritatem
coagulacionis. Hoc autem fit [illegible] quod ut Anaxagoras dicit
hoc quidem cum in frigidum ascendit, aut hoc pati. Nos autem
cum in calidum descendit et maxime cum maxime. Cum autem ad
huc magis antiperistasis pacia intra frigidum ab extrinseco calido aqua
autem faciens coagulavit et fit grando [illegible] [illegible] [illegible] modi [illegible]
grandinis secundum opinionem [illegible] [illegible] [illegible] [illegible] [illegible] grandines
ibi. Accidit autem [illegible] adhuc in [illegible] [illegible] [illegible] [illegible]
[illegible] quando [illegible] magne gutte cadunt [illegible] [illegible] [illegible] grandinis
[illegible] [illegible] [illegible] Anaxagore [illegible] [illegible] [illegible] [illegible]
[illegible] quod grando non fit propter [illegible] nubem in locum superiorem. [illegible] fit [illegible]
quoniam videmus quod calido et frigido [illegible] fit antiperistasis [illegible] [illegible] [illegible] loca
profunda terre in estate sunt frigida et calida in hyeme [illegible] antiperistasim
calidi et frigidi [illegible] putare fieri in eo loco [illegible] in loco super terram [illegible] quare frigidi
[illegible] propter [illegible] calidi [illegible] [illegible] aliquando cito aquam ex nube fieri
propter quod in diebus calidis fiunt gutte multo maiores quam in hyeme [illegible] fiunt aque
labrocte [illegible] cadunt [illegible] [illegible] [illegible] [illegible] aque [illegible] cadit
grandines [illegible] fit [illegible] Anaxagoras [illegible] Anaxagoras dicit [illegible] pati [illegible]
[illegible] grandine [illegible] ascendit in aerem frigidum. Nos autem [illegible] dicimus
[illegible] descendit in calidum [illegible] fit coagulatio [illegible] magis descendit nubes
in aerem calidum. Cum autem adhuc magis frigidum [illegible] intra [illegible] antiperistasis ab
[illegible] calido [illegible] faciens aquam ex nube [illegible] coagulabit [illegible]
[illegible] fit grando // [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] confortat [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] calidi [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] confortat [illegible] calor [illegible] [illegible]
[illegible] fortior in [illegible] [illegible] estimo [illegible] calidi fortius [illegible] [illegible]
[illegible] loca profunda [illegible] terre in estate sunt frigida [illegible] [illegible]
[illegible] apti [illegible] [illegible] [illegible] [illegible] calide. In hyeme [illegible]
loca terre profunda sunt calida propter [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
in loco super terram [illegible] in aere [illegible] [illegible] [illegible] fortitudo [illegible] [illegible]
[illegible] quod nubes [illegible] in [illegible] frigore [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] calide [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
et sepe [illegible] [illegible] [illegible] quod valde cito [illegible] [illegible] nubem in aquam

et propter talem resolucionem fiunt gutte valde magne, quas videmus cadere tempore estivo et ut in pluribus transeunt per radios solares et sunt magne quia [illegible] et aliis etc. quia calor circumstans valde intensus fortificat frigus nubis cadentis [illegible]. Et sic quod sit [illegible]
aque labuntur [illegible] sicut labentes seu cadentes. Item [illegible]
[illegible] grando [illegible] quia enim nubes [illegible] frigida [illegible] in loco frigido [illegible]
[illegible] talis [illegible] antiperistasis caloris [illegible] intenditur [illegible]
[illegible] nube in aqua [illegible] congelat [illegible] fit grando. Item [illegible]
[illegible] in duplici loco fit [illegible] grando [illegible] in medio [illegible] aeris [illegible]
[illegible] calido [illegible] regio aeris est frigida [illegible]
[illegible] calidi circumstantis [illegible] Item in tempore hyemali non est frigida [illegible]
[illegible] in aere [illegible] grando [illegible] in loco [illegible]
grando fit [illegible] nubis [illegible] caloris circumstantis intenditur [illegible] non fit
[illegible] grando [illegible] quod nubes [illegible] calido [illegible] dicit
[illegible] propter [illegible] calidi [illegible] circumstantiam
calidi [illegible] ubi frigus nubis [illegible] Item [illegible]
[illegible] pluvia grando [illegible] nubes a regione [illegible]
grando [illegible] propter [illegible] tempore [illegible]
[illegible] in regione [illegible] vel [illegible] regionem medii [illegible] fiat congelacio [illegible]
factum. Accidit autem hoc cum citius fuerit coagulacio quam
aeque latio deorsum. Si enim fiat quidem in tanto aut tempore
frigiditas, frigiditas autem vehementer contra in minori coagulavit, nichil
prohibet elevatam congelari si coagulacio in minori fiat tempore quam
deorsum latio. [illegible] dubitaciones [illegible]
[illegible] primo [illegible] coagulatione [illegible]
[illegible] primo [illegible]
[illegible] grando [illegible] congelacio fuit [illegible]
[illegible] tempore [illegible]
coagulant [illegible] tempore [illegible] coagulacio [illegible] in tempore [illegible]
elevata coagulari [illegible] coagulacio [illegible]
[illegible] nota [illegible] aqua [illegible] congelari [illegible] in 9° 3x
in grandinem [illegible] aqua [illegible] coagulari [illegible]
[illegible] quia [illegible] grando [illegible]
[illegible] dubitatio [illegible] grando fit [illegible]
vel vapor [illegible] grando [illegible] in aqua [illegible]
[illegible] in aqua [illegible]
[illegible] tanto [illegible]
[illegible] fiat subito coagulacio [illegible] labuntur fiunt [illegible]
gutte et grandines [illegible] propter [illegible] loco [illegible]
gutte [illegible] cadunt propter [illegible]
[illegible] coagulacio fiat [illegible] magis
subito [illegible] gutte et grandines fiunt minores [illegible]
loco [illegible] cadunt [illegible] magne gutte [illegible]
[illegible] grandines et gutte vel [illegible]
[illegible] grandines et
gutte [illegible] distancia [illegible] tanto [illegible] minores
[illegible] distanciam [illegible]
[illegible] distanciam tanto plus
[illegible] distanciam tanto [illegible]
[illegible]
[illegible] vel [illegible]

Minus autem estate fit grando vere et autumpno, magis tamen quam hyeme,
quia siccior aer estate, in vere autem humidus adhuc, in autumpno
autem iam humectatur. Fiunt autem quandoque iam dictum est et in maturatione
fructuum grandines propter eandem causam. Hic philosophus solvit parvam questionem dicens
nos videmus quod grando minus fit in estate quam vere et autumpno, magis tamen fit in
estate quam in hyeme. Subdit reddendo causam predictorum dicens quod grando
fit minus in estate quam in vere et autumpno, quia aer in estate est siccior, in vere autem
adhuc est humidus ex humiditate hyemis precedentis, in autumpno iam humectatur, quia est initium
humiditatis hyemis et propter humiditatem [illegible] tunc [illegible]. Grandines etiam fiunt in maturatione
fructuum, quando maturatio fructuum est in fine estatis, quod dictum est ad dicendum [illegible]
[illegible] [illegible] minus fit grando in estate quam in vere vel autumpno [illegible] quod propter quod
aer est minus [illegible] et [illegible] fit grando quando aer est tempore humidus [illegible] in estate
[illegible] aer minus [illegible] in vere autem et autumpno aer tempore humidus [illegible] in estate
aer [illegible] ad grandinem [illegible] humiditas [illegible] calor tempore [illegible] [illegible] alia
[illegible] quod in [illegible] hyeme [illegible] ut fit [illegible] grando grandinis
[illegible] quod grando fit per antiperistasim quod patet [illegible] a calido [illegible]
[illegible] [illegible] [illegible] deficit in hyeme [illegible] [illegible] [illegible]
calidi [illegible] deficit grandinis [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] grando fit per congelationem [illegible] [illegible] [illegible] dicat
fit in hyeme quam in aliis temporibus [illegible] [illegible] [illegible] [illegible] antiperistasis
calidi in loco [illegible] grandinis [illegible] [illegible] in [illegible] aque calide quam in [illegible]
[illegible]. Confert autem adhuc ad celeritatem coagulationis et precalefactam
esse aquam. Citius enim infrigidatur propter quod multi cum calidam infrigidare cito
voluerint ad solem ponunt primo, et qui circa Pontum in congelatione
habitacula faciunt ad piscium venationes. Venantur enim incidentes
glaciem, aquam calidam circumfundunt calamis propter quod citius
coagulatur. Utuntur enim glacie quemadmodum plumbo ut quiescant calami.
Calida autem fit cito congelans aqua in regionibus et temporibus calidis.
Hic philosophus [illegible] [illegible] [illegible] causam coadiuvantem [illegible] primo [illegible] [illegible]
modo [illegible] assignat causam [illegible] [illegible] [illegible] Fiunt autem [illegible] primo [illegible]
autem aquam esse precalefactam confert ad velocitatem coagulationis quia aqua calefacta citius
infrigidatur propter quod multi cum volunt cito infrigidare aquam calidam, ponunt ipsam
primo ad solem, et illi qui sunt circa Pontum [illegible] faciunt [illegible] in congelatione ad ve-
nacionem piscium [illegible] [illegible] [illegible] glaciem facientes [illegible] [illegible]
in glacie et circumfundunt [illegible] vel [illegible] [illegible] [illegible] [illegible] aquam calidam
[illegible] citius congelatur [illegible] enim glacie [illegible] plumbo ut calami quiescant [illegible]
aqua calida cito [illegible] congelatur in regionibus calidis [illegible] in temporibus calidis [illegible]
[illegible] [illegible] philosophus [illegible] [illegible] grandine [illegible] in temporibus calidis [illegible]
[illegible] quod tunc [illegible] per circumstantiam caloris fortificatur et cito congelat [illegible] vel
[illegible] [illegible] [illegible] [illegible] [illegible] coadiuvans [illegible] [illegible] aqua precalefacta
[illegible] [illegible] [illegible] citius congelatur quam si non esset precalefacta [illegible]
temporibus et regionibus calidis aqua [illegible] [illegible] [illegible] vapore elevato [illegible] aqua calefacta
[illegible] cito [illegible] congelatur [illegible] quod ex ipsa fit grando [illegible] [illegible] [illegible] philosophus declarat
[illegible] [illegible] [illegible] [illegible] multi volentes aquam calidam cito infrigidare ponunt
[illegible] primo ad solem et tunc [illegible] [illegible] [illegible] citius infrigidatur [illegible]
[illegible] aqua calida citius quam frigida congelatur [illegible] [illegible] aqua calida [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] calorem [illegible] cito [illegible]
[illegible] [illegible] congelat [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] adhuc
[illegible] [illegible] [illegible] adhuc citius fit infrigidatio. Item hic philosophus declarat
[illegible] [illegible] [illegible] circa Pontum facientes [illegible] in glacie ad capiendum pi-
sces volentes retia [illegible] in aquas descendebant [illegible] [illegible] retia [illegible]

postea calamus vel filus [illegible] [illegible] [illegible] in [illegible] [illegible] vitri [illegible] calamus
vel filus [illegible] [illegible] [illegible] [illegible] ut vitrum [illegible] in [illegible] loco [illegible] [illegible]
[illegible] aquam calidam [illegible] [illegible] aqua calida [illegible] [illegible] frigida [illegible] vitro [illegible]
in aqua [illegible] / Item [illegible] [illegible] ad [illegible] [illegible] [illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] alligat [illegible] [illegible] vitris ut videant [illegible]
[illegible] vitro [illegible] [illegible] aut [illegible] ad aquam [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] ut vitro [illegible] [illegible] [illegible] aqua [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] aqua calida [illegible] [illegible] [illegible] agitante
[illegible] plene [illegible] glacie [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Sunt autem [illegible] circa arabiam et ethyopiam [illegible] estate [illegible] in hyeme [illegible]
[illegible] die sepe [illegible] [illegible] [illegible] cito [illegible] [illegible] antipistasi
[illegible] sit [illegible] calidam [illegible] [illegible] valde [illegible] de pluuia [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] est
[illegible] sunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] de pluuia [illegible] [illegible] circa arabiam et ethyopiam
[illegible] [illegible] aque pluuiales in estate [illegible] in hyeme [illegible] aqua [illegible] valde [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aqua antipistasim [illegible]
[illegible] antipistasi sit [illegible] [illegible] calidam et cito [illegible] [illegible]
[illegible] [illegible] tanta sunt dicta de pluuia [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ista est [illegible] arabia et ethyo-
[illegible] [illegible] regiones valde calide [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sepe [illegible] [illegible] pluuiales [illegible] [illegible] [illegible] [illegible] vapores
[illegible] in [illegible] regionibus [illegible] calidis [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] vapor [illegible] [illegible] illuc valde cito [illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible] aque pluuiales [illegible] / [illegible] [illegible] [illegible] [illegible]
[illegible] vapor multum [illegible] [illegible] [illegible] [illegible] aqua [illegible] [illegible] [illegible]
[illegible] [illegible] pluuia [illegible] [illegible] [illegible] [illegible] in aqua et [illegible] pluuia
Item [illegible] [illegible] sit in [illegible] regionem aeris [illegible] pluuia [illegible] vapor
ita alte [illegible] et [illegible] in [illegible] [illegible] [illegible] regionis aeris [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] vapore [illegible] [illegible] [illegible] regionem
[illegible] vapor [illegible] [illegible] [illegible] [illegible] [illegible] regionem aeris [illegible] fiat
[illegible] veniat ad terram et efficiatur aqua vel pluuia [illegible] [illegible] [illegible] [illegible]
Item [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] super altos
montes [illegible] [illegible] [illegible] ad valles [illegible] in [illegible] [illegible] calidam [illegible]
vallibus [illegible] [illegible] [illegible] montes in [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] / Item [illegible] [illegible] [illegible] [illegible] [illegible] super [illegible] [illegible] sit [illegible]
[illegible] [illegible] magis [illegible] pluuia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Item [illegible] [illegible] [illegible] [illegible] sit [illegible] [illegible] rara [illegible] [illegible] [illegible] apta
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] obtinet victoriam vel [illegible] [illegible] [illegible] [illegible] /
[illegible] calidi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] / Item
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] albi [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Item [illegible] [illegible] ut [illegible] pluuia [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] terra [illegible] [illegible] apta ut [illegible]
[illegible] [illegible] [illegible] [illegible] vapor [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] sit [illegible] / Item [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] stellas [illegible] [illegible] [illegible] [illegible] [illegible]

flor[illegible] ... [illegible] assignat[illegible] ... celi [illegible] ... [illegible]
[illegible] ... magis [illegible] ... magis solide ... [illegible]
[illegible] ... stellae vel flores ... [illegible]
[illegible] ... [illegible]

De grandine — De sua grandine. Est 3º. Quando [illegible] ... grandines [illegible]
[illegible] ... grandines [illegible] ... [illegible]
[illegible] ... [illegible] ... [illegible]
[illegible] ... grandines ... in vallibus ... [illegible]
[illegible] ... [illegible]
[illegible] ... grandines in vallibus ... Item ... [illegible]
[illegible] ... grandines ... in loco alto ... [illegible]
[illegible] ... grandines ... Item ... [illegible]
[illegible] ... Item ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... grandines ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... Item ... [illegible]
[illegible] ... vapor ... [illegible]
[illegible] ... vapor ... grandines ... [illegible]
[illegible] ... Item ... [illegible]
[illegible] ... vapor ... [illegible]
[illegible] ... vapor ... [illegible]
[illegible] ... grandines ... Item ... [illegible]
[illegible] ... [illegible]
Item ... grandines ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... Item ... [illegible]
[illegible] ... cadit ... capita ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]

De ventis autem et omnibus spiritibus adhuc autem de fluminibus et mari dicamus. Et primo de hiis dubitationes ad nosipsos. Sicut enim et de aliis sic et de hiis nichil accepimus dictum tale quod non et quilibet dicat. Veteres [illegible] quidam [illegible] ... de grandine [illegible] et

Albertus tractatum 2m de libro [illegible]

[illegible]

at quidam qui aiunt ventum aerem motum quendam et fluxum esse [illegible] consistere
esse autem eundem [illegible] nubem et aquam tamquam eandem naturam existente aqua
et spiritu [illegible] et ventum existentem motum aeris propter quod et eorum qui sapienter
volunt dicere quidam unum aiunt ventum esse omnes ventos quia et
aerem motum unum et eundem esse omnem videri autem differre nichil differen-
tem propter loca unumquemque contingit fluere semper similiter dicentes quem-
admodum utique si quis putet et flumina omnia unum flumen esse

[illegible]

propter quod melius multa dicunt sine inquisitione quidam enim
inquisitionem sic dicentes. Siquidem enim de uno proveniens omnes
fluunt fontes eodem. Forsitan dicunt utique dicentes
sic. Sic autem singulare hic et palam quod hoc leve deinde leve
utique medacium. Cum hoc quidem optima hic consideracionem.
Quid est ventus et quomodo fit et quid movens et unde principium ipsorum
et primo utique quemadmodum ex vase ex accipere fluctus ventum
et oportet ad hoc fluere donec utique evacuetur vas velut ex utre
emissum. Et quemadmodum pictores pingunt copies principium emittentes

[illegible]

Similiter
autem et de generacione fluminum videtur quibusdam habere. elevata enim
a sole aqua iterum pluvia congregata sub terra fluere ex ventre magno
aut omnes communiter aut alium ex alio. et non fieri aquam nullam sed
collectam ex hyeme in talia susceptacula hinc fieri multitudinem fluminum.
propter quod et maiores semper hyeme fluere quam estate. et hos quidem esse
perpetuos hos autem non perpetuos. Quorumcumque quidem enim propter magnitudinem
ventris multa collecta aqua est ut sufficiat et non prius consummatur
antequam supervenit ymber in hyeme perpetuos hos quidem perpetuos esse

in fine combustiones aut modica suscepta ... [illegible]

[illegible]

... Omnis magis si quis velit facere velut susceptaculum potest cottidiane aque pluvialis ... tibi intelligere ... excedit vero magne terre ... vel saltem non multum deficiet suscepta omnis pluvie aque per annum ... [illegible]

[illegible]

... Et palam quod accidit quidam et multa talia in multis locis terre non solum ... et inquirentes si quis non putat

Nota

pluvia

propter quod tamen aqua est ac si preterquam quod super terram et in terra; equaliter
si quid et illic propter frigiditatem constat vaporans aer in aquam et ab ea
in terra frigiditate ... hoc est putare accidere et si nos semper segregatam
aquam ab ipsa et hac fluere continue. [illegible]

[illegible]

Adhuc autem non ea est ... [illegible]

[illegible]

Machinantur autem ipsum opus qui enim aqueductus faciunt, hi sub terra et
fossis colligunt ac si utique sudante terra ab excelsis etc. Hic philosophus
declarat predictum modum generationis fluviorum per quoddam signum, et primo declarat signo artificiali, secundo signo
naturali, ibi: Propter quod. Primo dicit: Operis artifices imitantur ipsum modum generationis fluviorum
et illi qui faciunt ductus aquarum in locis in quibus prius non fuit aqua, illi colligunt aquam
in locis depressis et etiam in fossis sub terra, sudorem emittente ab excelsis locis. Et quando
[illegible] quod philosophus prius dixit quod fluvii fiunt [illegible] quia multa aqua generatur [illegible] in locis
inferioribus terre congregatur. Hic declarat [illegible] signum [illegible] ad facere aqueductum
in aliquo loco in quo prius non fuit aqua, faciunt aqueductum in loco valde depresso ut aqua
separata ab altioribus locis terre in illum locum terre congregetur depressiorem etc.
Propter quod et fluenta fluviorum a montibus videntur fluentia, et plurimi et
maximi fluviorum fluunt a maximis montibus. Similiter autem et fontes plu-
rimi montibus et locis altis vicini. In campestribus autem sine fluminibus
pauci fiunt omnino. Montana enim et alta loca velut spongea spissa
suspensa paulatim quidem in multis autem locis producunt et colligunt aquam.
Suscipiunt enim advenientem aquam magnam multitudinem [illegible]
[illegible] et superiora quoque percutiunt [illegible] et gibbositate [illegible] cum [illegible]
[illegible] molem [illegible] corporis et ascendentem vaporem infrigidant et con-
vertunt iterum in aquam. Propter quod quemadmodum diximus a maximis fluviorum vi-
dentur fluentes montibus. Hic philosophus declarat hoc idem signo naturali et primo facit hoc,
secundo quibusdam specialibus exemplis declarat [illegible] fontium et fluminum,
ibi: Palam autem [illegible] sed quantum ad primum dicit tacite quoniam [illegible] quod enim
dictum est, propter quod et fluenta fluviorum videntur esse fluentes ex montibus et etiam
plurimi et maiores fluvii fluunt a maioribus montibus, et similiter plurimi fontes vicinantur
a montibus et locis altis, pauci autem omnino fontes fiunt in locis campestribus sine fluviis
[illegible] in campis planis [illegible] fluvii. Subdit rationem [illegible] dicens
loca montana et alta sunt valde spongia et spissa [illegible] elevata [illegible]
loca terre [illegible] producunt aquam in multis locis [illegible] colligunt aquam
et suscipiunt magnam multitudinem aque pluvialis advenientis. Subdit [illegible] tacite quoniam
dicens [illegible] moventur [illegible] superiora [illegible]
vel [illegible] et superiora [illegible] elevata [illegible] motum [illegible]
[illegible] corporis aque advenientis et montes infrigidant et condensant vaporem
ascendentem iterum in aquam. Subdit conclusionem [illegible] dicens propter quod [illegible]
maiores fluviorum videntur esse fluentes ex maioribus montibus [illegible]
[illegible] philosophus valde declarat [illegible] pluvie [illegible] aquarum [illegible]
[illegible] terre [illegible] fluvii [illegible] signo naturali dicens [illegible]
videmus quod multi fluviorum fluvii procedunt ex montibus et ex maioribus montibus maiores
procedunt fluvii [illegible] de fontibus [illegible]
[illegible] a montibus et locis altis et [illegible] montes [illegible] defluunt aque ad [illegible]
in campis planis [illegible] montes ~~[illegible] defluunt aque ad [illegible]~~ [illegible] fiunt fontes
[illegible] quare fluvii procedunt ex montibus [illegible] ista quia loca montana sunt po-
rosa et [illegible] spongia spissa [illegible] aquas [illegible] terre loca mon-
tana [illegible] aquam et colligunt aquam magnam multitudinem [illegible] producunt aquam in multa
loca terre. [illegible] philosophus [illegible] tacite quoniam
[illegible] vel [illegible] vel [illegible] in [illegible] collecta
[illegible] aqua [illegible] in [illegible]
[illegible] ad [illegible] aptitudinem [illegible] apta
[illegible] vel [illegible] apta [illegible] constituunt
[illegible] aquas et vapores ascendentes [illegible] solis infrigidando.

considerat in alium profundum quod in omnibus generatur. Item nota quod dicitur est [illegible]
et videmus maximos montes in superiori parte aptos ad aquam aptum affluunt multitudinem
aquarum. Etiam videmus aliquos montes [illegible] quia aqua effluunt [illegible] sic quod
[illegible] superius videntur aptiora [illegible] quod [illegible] multitudo aquarum colligi [illegible]
[illegible] sed [illegible]. Palam autem [illegible]
considerantibus terre periodos idest has circumscriptiones a singulis factas descriptiones
quecumque non accidit ipsosmet vidisse dicentes [illegible]
[illegible] quod fluvii [illegible] montibus [illegible]
quod maiores fluvii fluunt ex maioribus montibus [illegible] considerantibus periodos [illegible]
[illegible] descriptiones [illegible] quia has periodos describunt [illegible]
[illegible] aliis [illegible]
non accidit ipsosmet dicentes vidisse. Item notandum est [illegible] in mappa
mundi est posita descriptio [illegible] describentes [illegible]
viderunt describunt [illegible] non viderunt [illegible] viderunt illorum habebant notitiam
[illegible] conscripserunt [illegible] illos qui [illegible] sunt ipsa. [illegible]
In asia quidem igitur plurimi ex parnaso vocato monte videntur fluentes et
maximi fluminis. Hic autem mons dicitur esse maximus omnium qui ad orientem
hyemalem. Ascendenti enim iam videtur apparet [illegible] mare [illegible] non
palam [illegible] hinc [illegible] quidem fluunt alii fluvii et Bactrus
et Choaspes et Araxes. Ab hoc autem dividitur Tanays pars existens in
meotidem paludem. Fluit autem et Indus ex ipso omnium fluminum
[illegible] plurimum [illegible]
[illegible] motibus in Asia [illegible] declarat [illegible] motibus in Europa [illegible]
declarat [illegible] motibus in Affrica [illegible]
[illegible]
[illegible] cantaso [illegible] in asia quidem plurimi
et maximi fluvii [illegible] monte vocato parnaso [illegible]
maximus [illegible] ad orientem hyemalem [illegible] monte [illegible]
[illegible] mare [illegible]
[illegible] monte [illegible] quidem monte fluunt
alii fluvii [illegible] Bactrus et Choaspes et Araxes. Ab
hoc autem fluvio araxes [illegible] Tanais [illegible] in meotidem
paludem [illegible] monte fluit Indus fluvius [illegible] maior fluvius [illegible]
Item notandum quod ysidorus in [illegible] ethimologiarum libro [illegible]
[illegible] terre [illegible] orbis [illegible] a rotunditate [illegible]
[illegible] in tres partes [illegible]
una vocatur asia, alia europa, tertia affrica que et libya nuncupatur. Item notandum
ysidorus dicit [illegible] quod ipse orbis sit divisus in tres partes [illegible]
Nam asia a meridie per orientem usque ad septentrionem pervenit. Europa vero a septentrione
usque ad occidentem [illegible] in affrica ab occidente usque ad meridiem. Ex quo [illegible]
quod Affrica et europa [illegible] partem medie terre. [illegible] asia [illegible]
[illegible] et [illegible] asia et europa [illegible]
[illegible] ad [illegible]. Item notandum in asia
[illegible] alie regiones et provincie [illegible] ysidorus ibi nominat [illegible] paradisus
[illegible] in partibus orientis [illegible] india [illegible] ab indo flumine quo
[illegible] parte occidentali clauditur et a meridiano mari [illegible] usque ad ortum solis et ad
septentrionem usque ad montem cantasum pervenit. Et multe alie regiones [illegible] in
[illegible] parthia assyria media persida mesopotamia babilonia arabia
Syria [illegible] plurimis aliis. Item [illegible] in asia [illegible] montes [illegible]

[illegible]

[illegible] in celo [illegible] maior [illegible]
[illegible] Item [illegible] quod [illegible] hiemale [illegible]
ubi sol oritur [illegible] in signis australibus [illegible] Capricorni [illegible] Aliud
[illegible] estivale [illegible] sol oritur [illegible] in signis septentrionalibus [illegible]
[illegible] Aliud [illegible] Oriens [illegible] equinoctiale [illegible]
[illegible] ad occidentem [illegible] ad alias partes [illegible] montes valde alti
Item [illegible] altissimus [illegible]
[illegible] mare magnum occeanum [illegible]
[illegible] Item [illegible] flumina multa [illegible]
[illegible] isti fluvii nominati [illegible] Bactrus [illegible] Araxes [illegible]
Bactros [illegible] fluvius [illegible] a rege Bactro [illegible] a quo [illegible] Bactriani [illegible]
[illegible] fluvius [illegible] in corpore [illegible]
[illegible] adeo ut [illegible] reges [illegible]
[illegible] Araxes [illegible] aquis [illegible]
[illegible] Item [illegible] flumen [illegible]
[illegible] Canays [illegible] paludem
[illegible] regio Europe vocatur [illegible] a Meotidis paludibus
[illegible] Danubium [illegible] Occeanum septentrionalem [illegible]
Item [illegible] quod Yndus [illegible] magnum flumen in Yndia quod claudit Yndiam ex parte occidentali
[illegible] Yndus [illegible] fluvius [illegible]
[illegible] mare [illegible] De Caucaso autem alii scribunt multa
[illegible] magni [illegible] occidentes [illegible] Caucasus autem maximus
mons [illegible] ad orientem estivalem [illegible] altitudine [illegible]
[illegible] declarat [illegible] Oriente [illegible] ad [illegible]
[illegible] declarat [illegible] Signa autem [illegible]
fluvii [illegible] a monte Caucaso [illegible]
[illegible] fluvius [illegible] Caucasus [illegible] mons
[illegible] ad orientem estivalem [illegible] in altitudine [illegible]
[illegible] Caucasus [illegible] ad Yndiam usque ad [illegible]
[illegible] quas vadit [illegible]
[illegible] ad orientem [illegible] candidum
Caucasus vocatur [illegible] Caucasus [illegible] candidus [illegible]
[illegible] gentes [illegible]
[illegible] Item [illegible]
[illegible] a Caucasis montibus [illegible]
[illegible] in mare [illegible] Signa autem altitudinis eius
[illegible] a navigantibus in stagnum [illegible]
autem illustratur [illegible] usque ad [illegible] partem noctis [illegible] ab
oriente [illegible] declarat [illegible]
[illegible] declarat [illegible]
[illegible] Signum [illegible] altitudinis montis Caucasi [illegible]
[illegible] navigantibus [illegible] stagnum [illegible] valde remoti [illegible]
[illegible] signum [illegible] illustratur [illegible] a sole usque
ad [illegible] partem noctis [illegible] ab oriente [illegible] ab occidente solis [illegible] signum
altitudinis [illegible] valde [illegible]
[illegible] valde alti
Item [illegible] aliud signum [illegible] post occasum solis [illegible]
illustratur usque ad [illegible] partem noctis [illegible] post occasum [illegible]
partem noctis [illegible] ortum solis [illegible]
[illegible] partem noctis [illegible] mons [illegible] valde alti
Multitudinem autem ex multa [illegible] in quibus gentes habitant magna [illegible]
multe et stagnia esse [illegible] usque ad ultimam [illegible] inga esse aiunt

Hic philosophus declarat passiones magnitudinis montis dicens quod magnitudo montis est quod habet multa iuga in quibus multe gentes habitant et dicit quod multa stagna sunt inter illa iuga et [illegible] omnia ista stagna sunt [illegible] usque ad ultima vertice montis. Item [illegible] nota iuga dicuntur partes montis plus aliis elevate et possunt vocari partes montes eminentes magnorum montium ascendentes seu eminentes et [illegible] ysidorus dicit quod colles sunt eminentiora iuga montium [illegible] colla. iuga autem montium [illegible] sunt appellata [illegible] appropinquantes similitudinem iugarum. Item nota in [illegible] multe habitant multe gentes et [illegible] Albertus [illegible] multarum linguarum [illegible] sicut magnitudinis [illegible]. Item nota quod licet multa iuga montis sint multa flumina [illegible] appareat ascendentibus [illegible] eminentia montis et appareat ac si sint [illegible] usque ad summum illius montis. Ex pyrene autem qui est mons ad occidentem equinoctialem in celtica fluunt yster et tartessus. Iste quidem igitur extra columpnas. ysterus autem per totam europam in pontum euxinum. Aliorum autem fluviorum plurimi ad arcticum ex montibus archinis. Hii autem et multi et altitudine maximi circa locum hunc sunt. Sub ipsa autem ursa super ultimam sitiam vocate rippe de quarum magnitudine valde dicti sermones quasi fabulosi. Fluunt igitur plurimi et maximi post ystrum aliorum fluviorum hinc ut aiunt.

Hic philosophus declarat illud idem de quibusdam montibus in europa dicens quod pyrineus mons qui est mons ad occidentem equinoctialem declinans in celtica regione fluunt flumina yster et tartessus iste quidem tartessus extra columpnas herculis fluit. ysterus autem per totam europam in pontum euxinum. Fluunt etiam plurimi de numero aliorum fluviorum fluunt ad septentrionem ex montibus arcticis quia hii montes sunt maximi circa hunc locum septentrionem multitudine et altitudine. Sub ipsa autem ursa [illegible] constellatione que est circa septentrionem super ultimam siciam sunt vocate rippe id est montes de quorum magnitudine dicuntur dicte valde multe sermones quasi sunt quasi fabulosi. Plurimi igitur et maiores fluvii de numero aliorum fluviorum post ysterum fluunt hinc id est de talibus montibus ut aiunt [illegible] Circa textum nota quod europa est una pars [illegible] a septentrione usque ad occidentem denominata a quadam puella vocata hoc nomine. Sed ut ysidorus dicit fuit filia agenoris regis libie quam iupiter ab affrica raptam cretam [illegible] usque ad eius regionem quam ex parte [illegible] adduxit [illegible] partem orbis ex eius nomine appellavit. Item nota in europa est mons qui vocatur pyrineus [illegible] ysidorus a crebris ignibus fulminum [illegible] qui pirineus dicitur [illegible] inter galliam et hyspaniam. Item nota [illegible] in celtica que est pars [illegible] ripe ut etiam narrat ysidorus [illegible] belgica. Fluunt ab isto monte scilicet pyrineo duo flumina scilicet yster et tartessus et istorum unum scilicet tartessus fluit extra columpnas herculis que sunt in finibus hyspanie. Aliud autem scilicet ysterus quod valde magnum fluit per totam europam. Notandum quod ex montibus arcticis fluunt multi flumina versus septentrionem [illegible] mediterranea [illegible] altitudine [illegible] et vocati sunt [illegible] [illegible] montes sunt inter [illegible] Item nota quod scicia [illegible] europe [illegible] ysidorus [illegible] per europe est [illegible] a meotides paludibus [illegible] danubium [illegible] et occeanum septentrionale [illegible] ad germaniam porrigitur [illegible] flumina germanie gentes quibus dicta barbarica [illegible] albania [illegible] que ad meotides paludes pertingit. posthac dacia et gocia [illegible] germania [illegible] Item nota quod [illegible] que est circa polum septentrionalem [illegible] ultimam siciam [illegible] [illegible] sicia superior [illegible] in asia [illegible] sunt montes vocati [illegible] ripei [illegible] ventorum [illegible] flatu nominati ut attestatur ysidorus et isti sunt montes valde magni ex quibus fluunt maiores fluvii [illegible] post ysterum [illegible]

Similiter autem et circa lybiam quidem ex ethyopicis montibus et egon et nyses maximi autem denominatorum chremetes vocatus [illegible]

in occidente mare fluit. Et in lybia fluvius primo ex argenteo vocato
monte. Et quo autem etiam Chremetes locum Achelous quidem
ex pindo et Ionathes hinc. Strimon autem et nessus et ebrius
omnes tres fluentes ex Scombro. multi autem fluvius et ex Rodope
sunt. Similiter autem et alios fluvios inveniet quis utique fluentes
sed testimonii gratia hos diximus. Etiam et quicumque istorum flu-
unt ex paludibus paludes sub montibus esse positas accidit omnes
fere, aut sub locis altis exponere. Hic philosophus declarat hoc idem de montibus qui sunt
in affrica. Dicit Similiter autem et circa libiam i. affricam ex montibus ethyopie [illegible]
[illegible] fluvii qui vocantur Egon et nises et unus maximus fluviorum [illegible] fluviorum [illegible]
gatorum i. vulgariter vocatorum vocato chremetes est veniunt ex eisdem montibus qui flu-
it in mare exterius [illegible] fluvius autem nylus in libya consurgit vocato argenteo
de [illegible] autem [illegible] fluviorum qui sunt circa locum Ellinicum et Achelous fluvius et Io-
nathes fluunt hinc ex pindo monte. Sed isti fluvii scilicet Strimon nessus et ebrius
omnes quidem fluunt ex Scombro monte. Et multi fluvii fluviorum fluunt ex Ro-
dope. Subdit concludendo et de pluribus [illegible] montibus et fluviorum [illegible]
Similiter [illegible] inveniat utique alios fluvios fluentes sed nos diximus hec gratia
testimonii. Qui quidem horum fluviorum fluunt ex paludibus et accidit fere omnes pa-
ludes esse positas sub montibus aut sub locis altis [illegible] alius
Circa libiam [illegible] libia [illegible] tertia pars orbis que alio nomine vocatur affrica et
dicitur libia [illegible] fluit libia i. affrica. Item nota [illegible]
[illegible] libia tyreneys a tyrene urbe metropoli que est in eius finibus [illegible]
[illegible] Egypto ab oriente. Syrtes maiores [illegible] et mare libicum
a Septentrione et a meridie vero ethiopia et barbarie [illegible] gratia [illegible]
solitudines [illegible] Item nota [illegible] e-
thiopia [illegible] in montibus [illegible] illis montibus [illegible] fluvii [illegible]
scilicet Egon et nises et fluvius vocatus chremetes [illegible] nylus fluit ex eisdem
fluit [illegible] ex monte vocato argenteo [illegible] Egon fluvius
egreditur de paradiso [illegible] ethiopiam [illegible] hic nota quod Egon [illegible]
[illegible] terram egipti irrigat [illegible] grece [illegible]
latine [illegible] apud egyptios vocatur nylus [illegible] Nylus fluvius [illegible] per egi-
ptum [illegible] ethiopum [illegible] Item nota quod etiam locum
ellinicum fluit quidem fluvius qui vocatur achelous ex monte vocato pindo et
ex eodem monte etiam fluit fluvius Ionathes. Sed alii tres fluvii scilicet Strimon
nessus et ebrius fluunt ex monte Scombro [illegible] alii fluvii fluviorum
ex monte Rodope procedunt [illegible] Et quidem igitur non oportet putare sic
fieri principia fluviorum ut ex determinatis venis maximis. Neque enim
neque locus sufficiens esset cum terra ut est dicere Sicut neque cum
nubium si [illegible] oportebat fluere solum et non hoc quidem defluere
hoc autem fieri sed semper ab existente accipiebant. Hic est tertia pars Capituli
in qua philosophus [illegible]
[illegible]
[illegible] principia fluviorum [illegible] ex receptaculis [illegible]
[illegible] de novo [illegible]
neque locus [illegible]
[illegible] sufficiens ad [illegible] aquam [illegible] fluit [illegible] oportebat
[illegible] fluere [illegible] aque non deficit [illegible] de novo non
fiet. Sed [illegible] accipiebant fluvii aquam ab existente aqua [illegible]
[illegible]
[illegible] de novo [illegible]
ex locis totius terre [illegible] aqua [illegible]

[illegible] loci [illegible] continue cadat aqua quia cadit [illegible]
[illegible] si [illegible] loco [illegible] cadet ad [illegible] aqua deficit
[illegible] aqua [illegible] e[st] sub motibus ex fon-
tes attestari [illegible] ad modicum [illegible] paulatim ex multe
[illegible] distribuit loci [illegible] fiunt sic fontes fluviorum. Non sunt
[illegible] et loca [illegible] ut velut stagna nichil magis
[illegible] ad talia ut [illegible] attendat nichil magis [illegible] si quis putat
[illegible] fontes fluviorum [illegible] ex fontibus plurimi flu-
[illegible] simile [illegible] illa [illegible] putat esse corpus aque omne
[illegible] repetit [illegible] opiniones [illegible]
[illegible] opiniones antiquorum [illegible] declarat [illegible] assumpta [illegible] repetit [illegible] ad [illegible]
[illegible] primo [illegible] fontes [illegible] motibus attestari [illegible] fluviorum [illegible]
[illegible] paulatim [illegible]
[illegible]
[illegible] velut stagna [illegible] nichil [illegible] magis [illegible]
[illegible] magis [illegible]
[illegible] fontes [illegible] si quis putat [illegible]
[illegible]
[illegible]
[illegible] aquarum [illegible] repetit [illegible]
[illegible] fontes [illegible] motibus [illegible]
[illegible] paulatim [illegible]
[illegible]
[illegible] stagna [illegible]
[illegible]
[illegible] magna [illegible]
[illegible] aqua [illegible] de novo [illegible]
[illegible] fontes [illegible] aqua [illegible] de novo [illegible]
fluviorum [illegible] aqua de novo [illegible]
[illegible] fluviorum [illegible] aquarum de novo
aquarum [illegible] Sunt autem sunt tales fontes et voragines
terre manifestat absorpti fluviorum. Accidit autem [illegible] hoc in multis
locis terre puta peloponensi plurima talia circa archadiam sunt.
Causa autem [illegible] montuosa esse [illegible] non habere effluxus ex aliquibus
[illegible] repleta enim loca [illegible] non habentia effluxum ipsis [illegible] venit
[illegible] in profundum cogente desuperveniente aqua. Circa elladem
[illegible] plura talia omnino sunt circa [illegible] declarat [illegible] assumpta
[illegible] repleta [illegible] primo declarat [illegible] de quibusdam locis in europa
[illegible] de quibusdam in asia [illegible] sub caucaso [illegible] primo [illegible] autem [illegible]
fontes [illegible] voragines [illegible] profunditates [illegible]
absorpti [illegible] fluviorum [illegible] accidit [illegible] fluvii absorbentur
[illegible] accidit in [illegible] peloponensi [illegible] plurima talia [illegible] circa archadiam [illegible]
[illegible] montuosa [illegible] effluxus ex aliquibus [illegible]
[illegible] ad mare [illegible] repleta [illegible]
[illegible] in profundum [illegible] aqua [illegible] cogente
[illegible] circa elladem [illegible] talia [illegible]
[illegible] loca [illegible] fluvii absorbentur
[illegible] ad loca [illegible] declarat [illegible]
[illegible] plurima talia [illegible] circa archadiam [illegible] nota [illegible]

Dalmacia 1 pa ab occidente
Epirus 2
Ellados 3
vij prouincie grecie Tessalia 4
Macedonia 5
Achaya 6
Grecia [illegible] que 7 sunt in mari
Ciclades

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In Europa est grecia que habet vij prouincias quarum prima ab occidente Dalmacia / deinde Epirus / deinde Ellados / deinde Tessalia / deinde Macedonia / deinde Achaia / et due in mari Creta et Cyclades. Item vero que Ellades dicta est a rege Ellano [illegible] et [illegible] filio [illegible] a quo et [illegible] greci Ellenes nominati sunt [illegible] et illius regionis [illegible] Ellade [illegible] prouincie [illegible] Tessalia et Peloponensis [illegible] Peloponensis est [illegible] [illegible] dicta a Pelope rege [illegible] et [illegible] [illegible] [illegible] que dicitur Peloponensis [illegible] Item secundo [illegible] Achaia ab Acheo rege dicta [illegible] appellata Archadia [illegible] [illegible] Achaie [illegible] ista Archadia [illegible] [illegible] Erymanto et ab [illegible] [illegible] [illegible] inextinguibilis. Item vero [illegible] terra [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in mare [illegible] [illegible] [illegible] [illegible] aquis non [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] terra regionem Elladem [illegible] Elladem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Sed sub Caucaso [illegible] [illegible] [illegible] [illegible] [illegible]
stagnum quod vocant [illegible] mare / hoc enim multis fluuiis et magnis ingredientibus / non habens effluxum manifestum / declinat sub terra / in [illegible] coraxos circa profunda ponti / hic enim est infinita quedam maris profunditas / nullam enim umquam [illegible] descendentes potuit inuenire / hic autem longe a terra fere ad trecenta stadia potabilem reddit aquam / ad multum locum / non continuum sed in tribus partibus / et [illegible] Ligusticam non minor Rodano absorbetur quidam fluuius / et iterum emergit [illegible] alium locum / Rodanus autem fluuius nauigabilis [illegible] [illegible] [illegible] [illegible] [illegible]
declarat [illegible] [illegible] [illegible] locis in Asia dicens sub Caucaso [illegible] stagnum [illegible] quod [illegible] vocant mare [illegible] [illegible] ingredientibus multis et magnis fluuiis [illegible] non [illegible] [illegible] effluxum [illegible] declinat sub terra [illegible] [illegible] coraxos terra circa profunda [illegible] ponti / hic autem profunda loca sunt [illegible] profunditas maris infinita [illegible] [illegible] [illegible] [illegible] descendentes potuit [illegible] [illegible] [illegible] / hic autem profunda loca [illegible] ad trecenta stadia a terra reddit aquam potabilem ad locum valde multum [illegible] [illegible] in locum ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad quos [illegible] [illegible] [illegible] subdit [illegible] [illegible] aliud [illegible] quod loca in Europa [illegible] dicens et circa Ligusticam regionem absorbetur quidam fluuius non minor Rodano [illegible] iterum emergit [illegible] alium locum / Rodanus autem fluuius [illegible] nauigabilis / [illegible] [illegible] [illegible] [illegible] [illegible] quod [illegible] monte Caucaso [illegible] stagnum [illegible] [illegible] [illegible] [illegible] mare [illegible] [illegible] [illegible] multi et magni fluuii / [illegible] [illegible] mare non [illegible] [illegible] effluxum [illegible] [illegible] ad loca [illegible] [illegible] coraxos [illegible] [illegible] circa loca profunda [illegible] maris [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] descendentes potuit attingere [illegible] [illegible] [illegible] ista loca profunda [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] stadiorum a terra [illegible] [illegible] [illegible] [illegible] potabilis [illegible] [illegible] Item [illegible] [illegible] [illegible] idem declarat [illegible] [illegible] [illegible] circa regionem Ligusticam [illegible] fluuius absorbetur [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fluuius [illegible] ab opido [illegible] [illegible] Non semper autem eadem loca terre neque aquosa neque arida sunt [illegible] permutantur [illegible] fluuiorum generationes et defectus [illegible] [illegible] [illegible] terra permutat et mare [illegible] non [illegible] [illegible] terra [illegible] autem mare [illegible] omni tempore / [illegible] fit mare quod [illegible] arida / [illegible] autem [illegible] mare iterum [illegible] terra / [illegible] quendam ordinem [illegible] permutationes [illegible] [illegible] [illegible] [illegible] [illegible] permutationem fluuiorum [illegible] [illegible] [illegible] [illegible] illius [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] loca terre sunt aquosa neque [illegible] eadem loca [illegible] arida [illegible] [illegible] [illegible] generationes fluuiorum et [illegible] defectus fluuiorum [illegible] [illegible] terra [illegible] terra [illegible] [illegible] [illegible] terra mare [illegible] [illegible] [illegible] [illegible] omni tempore.

Terra

i. non legitur

[illegible] [illegible]

fuit fons

[illegible] ad [illegible] [illegible] aliud [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] non

C 3m

[illegible] [illegible]

[illegible] terra [illegible] quando [illegible] [illegible] mare. Et [illegible] terra [illegible]
mare postea. Et [illegible] [illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] in aliquo loco terre [illegible] fluminis [illegible] postea est [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fluvius in aliquo loco [illegible] deficit in eodem
[illegible] [illegible] terra [illegible] fluminis. Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] mare [illegible] postea [illegible] terra sicca [illegible] [illegible] [illegible] [illegible] [illegible] in eodem
loco [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] causa [illegible]. **Principium autem horum et causa**
[putandum] quia et terre interiora sicut corpora plantarum et animalium statum habent et senectutem,
verum illis quidem non secundum partem hoc accidit pati, sed simul totum in statu et
decrementum pati necesse. Terre autem hoc fit secundum partem propter frigus et calorem.
Hec quidem crescunt et minuuntur propter solem et propter circulacionem; propter hec
autem et virtutem partes terre accipiunt differentem, ut usque ad tempus aquosa
possint permanere, deinde exsiccantur et senescunt iterum. Alia autem loca vivi-
ficantur et aquosa fiunt secundum partem. [illegible] [illegible] vult investigare causam [illegible]
[illegible] [illegible] [illegible] causam et modum permutacionis fluviorum [illegible] causam et modum [illegible]
[illegible] [illegible] [illegible] [illegible] que [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] applicat [illegible] ad permutaciones maris et fluviorum
in speciali [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] terre [illegible] [illegible] habent statum [illegible] [illegible] et augmento et senectutem
[illegible] corpora plantarum et animalium. Et [illegible] illis [illegible] [illegible] [illegible] accidit [illegible] statum
et senectutem pati secundum partem. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in statu [illegible]
[illegible] pati decrementum. [illegible] hoc fit terre secundum partem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] propter frigus et calorem. [illegible] [illegible] [illegible] plantarum [illegible]
crescunt [illegible] et minuuntur [illegible] propter solem [illegible] [illegible] circulacionem. [illegible] [illegible] [illegible]
partes terre [illegible] [illegible] differentes, ut loca terre usque ad tempus [illegible] [illegible] perma-
nere aquosa, deinde exsiccantur et iterum senescunt. Et [illegible] [illegible] loca terre vivifi-
Nota | [illegible] cantur et fiunt aquosa secundum partem [illegible] [illegible] terre [illegible] [illegible] [illegible] corpora animalium
et plantarum [illegible] [illegible] in vita [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] vel virtute [illegible] [illegible] [illegible] statum [illegible] [illegible]
senectute. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] partibus terre [illegible] contingit etiam [illegible] [illegible]
[illegible] statum et decrementum. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
statum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] distinctas [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] in obliquo circulo [illegible] [illegible] [illegible] [illegible] corporibus [illegible] [illegible] [illegible] [illegible]
[illegible] motu solis et aliorum astrorum [illegible] partibus terre [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] alia vero [illegible] [illegible] [illegible] [illegible] alia vero [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fluvius postea [illegible] terra sicca [illegible]. Et [illegible]
aliquo loco [illegible] [illegible] fluvius [illegible] [illegible] deficit in eodem [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] solis et aliorum astrorum [illegible]. **Necesse autem locis siccatis fontes**
consumi. His autem accidentibus flumina primo quidem ex magnis parva,
tandem autem sicca fieri. Fluminibus autem transmutatis et hic quidem consumptis, in aliis
proporcionaliter factis permutari mare. Ubi quidem enim excrescens a fluminibus
inundavit, abscedens aridam facere necesse; ubi autem [illegible] [illegible] [illegible]
fluminibus inundatum exsiccabatur, iterum hic stagnare. [illegible] [illegible] applicat ea
[illegible] [illegible] ad permutaciones fluviorum et aliis [illegible] in speciali [illegible] [illegible] in duas partes
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aut modo

Quod fiebat in toto hominibus in illa regione hominum ... [illegible] hominibus non memorantur fluvium transmutationem ... multas ... humanas

sunt in duas/ ... 13/2o. Respondit tunc tacite ... [illegible] 41

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] sic apparet

[illegible] propter defectum fluviorum [illegible]

[illegible]

[illegible]

[illegible] aquam. Sed propterea quod sit omnis vallis terra etiam [illegible]

per successionem et in temporibus longissimis ad ultimam vitam habet hec facta

et post omnia genera [illegible] fuit et corruptos, antequam memoria hominum

permutata a principio in fine. Magnum quidem [illegible] corruptas sunt [illegible]

citissime in partibus. Alie autem in infinita [illegible] hec autem [illegible]

et hiis et hec quidem magne, hec quidem [illegible] ut lateat

[illegible] et transmigrationes, propterea quod hii quidem [illegible]

hii autem permanserunt usque adhuc donec utique non amplius possit

alere regio multitudinem illam. Prima quoque desertione ad ultimam [illegible]

longa sunt tempora ut nullus meminerit. Sed et salvatur adhuc per

[illegible] oblivionem et statim propter temporis multitudinem [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

ad tempus vite nostre [illegible] omnes gentes [illegible] sentit [illegible] [illegible] possit [illegible]
[illegible] stans et [illegible] permutationem mare vel magis fluvii a principio usque ad finem [illegible]
[illegible] declaratur [illegible] [illegible] in [illegible] corporibus [illegible] sunt [illegible]
[illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in [illegible] et postea in [illegible] succedere [illegible] paulatim sic [illegible]
[illegible] principio [illegible] [illegible] [illegible] [illegible] causa [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] usque ad finem [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] diuturnitate temporis [illegible] [illegible] [illegible] in [illegible] [illegible]
[illegible] latere. Sic [illegible] [illegible] [illegible] incipiunt paulatim in [illegible] [illegible] [illegible]
diuturnitate temporis in [illegible] [illegible] oblivio [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in principio [illegible] incipiunt [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] paulatim [illegible] [illegible] deficit [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] permutationis [illegible] succedentibus temporis

Eodem autem modo oportet putare et mutationes latere
sub gentibus singulis [illegible] permutata [illegible] [illegible] [illegible]
quosque [illegible] paulatim [illegible] multo fit tempore [illegible] [illegible] palades (?) [illegible]
sit memoria a principio [illegible] et qualiter habitabilis locus venerit. Velut
autem et circa Egyptum etenim hic locus semper siccior videtur factus et to-
ta regio fluminis aggeratio existens Nili. Accedunt autem paulatim exsiccatis palu-
dibus [illegible] [illegible] [illegible] longitudine ablatum est principium [illegible]
[illegible] et [illegible] omnia excepto uno Canobico manufacta et non fluminis
[illegible] et antiquitus Egyptus Thebe vocata. Insinuat autem et Homerus
[illegible] [illegible] [illegible] [illegible] ad [illegible] permutationes. [illegible] [illegible]
loca [illegible] [illegible] [illegible] nondum [illegible] [illegible] [illegible] totaliter aut
non [illegible] [illegible] [illegible] [illegible] sic accidere [illegible] enim loca superiora
posterius habitata sunt. paludosa enim [illegible] amplius tempore [illegible]
[illegible] [illegible] stagnat in ultimis semper magis [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] permutationes [illegible] [illegible] [illegible] [illegible] habitabilis sit
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] permutationes [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] permutata autem
[illegible] [illegible] eodem modo oportet putare [illegible] latere [illegible] [illegible] habitationes [illegible] Velut
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] paludes et aquosa loca permutata sunt
[illegible] multo tempore sic [illegible] sit paulatim [illegible] [illegible] habitabilia.
[illegible] [illegible] venerit et qualiter locus sit habitabilis venerit [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] circa Egyptum [illegible] quia hic locus Egypti videtur [illegible] [illegible]
siccior et tota regio Egypti videtur [illegible] [illegible] Nili fluvii [illegible] [illegible] [illegible]
[illegible] loca [illegible] [illegible] [illegible] [illegible] paludibus exsiccatis [illegible] [illegible] [illegible]
habitatores Egypti. [illegible] ablatum a memoria [illegible] [illegible] [illegible] [illegible] [illegible]
ad [illegible] [illegible] [illegible] artificialiter [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] excepto uno [illegible] Canopico flumine [illegible] Egyptus antiquitus vocata
sit Thebe [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in isto tempore ad [illegible]
permutationes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] illius loci [illegible] Thebas. [illegible]
Egypto nondum [illegible] [illegible] totaliter [illegible] non [illegible] [illegible] [illegible] [illegible] [illegible] accidere
quia loca magis depressa [illegible] [illegible] posterius habitata [illegible] [illegible] [illegible]
loca paludosa [illegible] [illegible] [illegible] [illegible] [illegible] ad amplius [illegible] paulatim

attende (?)

[illegible] qui olim per tota Egyptum erat diffusus

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] Egypto [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible]
[illegible] [illegible] loca paludosa [illegible] [illegible] [illegible] stagna [illegible] [illegible] [illegible] [illegible] [illegible]

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et per longum tempus propter stagnationem fluminis manebat per magis in loco ultimo i. in fi-
nibus et profundo || Amplius vero declarat quod antiquitus fuerunt civitates etiam facta terra habita-
bilis et fit antiquis egiptiis. Sed item hoc est valde latens quia antiqui non [illegible] totaliter habitabiles
et non recordabantur quia non incepit esse habitabilis statim ad alia loca que prius fuerunt aquosa et
paludosa sunt exsiccata sed quia non sunt habitabilia. Sed quia iste valde longo tempore fuerunt
mutaciones facte et quia prius alia pars exsiccabatur et fiebat habitabilis et etiam alia pars
et [illegible] non [illegible] qui primo venerunt ad habitandum ista loca
et etiam qualiter habitaverunt sed ista loca [illegible] et propter eius tales permutaciones sunt latentes
Item notandum quod hic declarat in quodam exemplo quia tota Egiptus fuit quasi
non habitabilis [illegible] per tempus [illegible] fuit diffusus Nilus et tunc ista regio [illegible]
exsiccata [illegible] et postea loca paludosa paulatim exsiccabantur et sic
loca proxima paludibus fiebant habitabilia [illegible] in quo
[illegible] regio habitabilis [illegible] ipse Nilus [illegible] continue [illegible] ergo patet quod tales
permutaciones sunt latentes. Item vero ipse dicit omnes illi [illegible] quamvis
[illegible] fluunt [illegible] sed ac si [illegible] non sunt tales [illegible]
fluvii [illegible] Egipti [illegible] Nilus excepto solo uno [illegible]
[illegible] Canopico a civitate Canopi nominato. Canopus vero Egipti est regio [illegible]
[illegible] ab oriente [illegible] ab occasu autem et ad septentrionem
[illegible] mare [illegible] Canopeia [illegible]
Canope Menelai gubernator sepultus est [illegible]
[illegible] excepto uno Canopico. Item notandum
[illegible] quod antiquitus tota Egiptus vocabatur Thebe [illegible] aliud
[illegible] sunt [illegible] regionis [illegible] ab [illegible]
[illegible] patet quod [illegible] regio [illegible] habitabilis facta. Item
vero quod [illegible] dicit Homerus poeta qui tempore [illegible] permutaciones [illegible]
[illegible] Egipti [illegible] Thebis [illegible]
[illegible] Egiptus [illegible] regio tota [illegible]
[illegible] in littera vocat Egiptum [illegible] a Nilo fluvio. || Item vero ipse [illegible]
[illegible] Egipti quia loca magis profunda [illegible]
habitabilia facta [illegible] magis [illegible] Egipti [illegible] valde [illegible]
[illegible] loci [illegible] Thebe [illegible] magis profunda
[illegible] habitate / quia loca profunda et paludosa [illegible]
longiori tempore [illegible] exsiccata [illegible] loca magis elevata [illegible] permutata
ante [illegible] desiccata autem loca venerunt [illegible]
Nunc autem [illegible] desiccata autem sunt [illegible]
accidit [illegible] circa Argivos et Micenenses [illegible]
[illegible] que Argivos [illegible] paludosa erat paucos poterat alere
Micena autem [illegible] honorabilior erat. Nunc autem
[illegible] in [illegible] desiccata [illegible]
[illegible] propter stagnationem [illegible] inutilis [illegible]
Sicut igitur in hoc loco accidit [illegible] eodem modo putandum est accidere
[illegible] circa magna loca et regiones totas [illegible] declarat [illegible]
contingat [illegible] regionum permutaciones [illegible] narrat [illegible]
declarat [illegible] quod accidit [illegible] permutacio [illegible]
[illegible] loca [illegible]
[illegible]
[illegible] declarando hoc [illegible]
[illegible]
[illegible] paulo altioribus [illegible] erat paludosa [illegible] paucos poterat alere

[illegible]

ad modicum tempus putare causam esse passionis totius permutationem [illegible] quod et fieri

tempus generato celo / propter quod et mare minus fieri ait [illegible] tempus exsiccatum /

quia plura loca apparent hec passa nunc quam prius

[illegible]

[illegible] Est autem

aquosa / nunc autem arida non solum sed et contrarium / In multis enim locis [illegible]

sufficientes invenies supervenisse mare. Sed huius causam non mundi generationem

putare oportet [illegible] propter parvas et momentaneas permutationes [illegible] Terre autem moles et magnitudo nihil omnino est

ad totum celum [illegible]

[illegible]

consimiliter / et fit per tempora finita velut in temporibus que sunt

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anni hyems fit periodo quadam magna magna hyemps et excessus ymbrium. Hoc autem non semper secundum eadem loca, sed quemadmodum vocatum sub Deucalione cataclismus. Etenim hic circa grecum locum factus fuit maxime, et huius circa ellada antiquam. Hec autem est que circa Dodonem et Achelon; iste enim multis in locis fluxum permutavit. Habitabant enim Selli hic et vocati tunc greci, nunc autem ellenes.

[illegible]

albano rege [illegible] ab albano rege sub ellenes nuncupati. Cum igitur sic fiat talis excessus ymbrium, putare oportet ad multum tempus sufficere. [illegible] ut autem [illegible] et perpetuos quosdam fluminum, hi quidem autem [illegible] tamen et magnitudine sub terra voraginum. Hos autem magnitudine altorum locorum et spissitudine et frigiditatem [illegible] Ista enim plurimam suscipiunt aquam et continent et faciunt. Quibuscumque autem parvis suspense montium consistentie, aut lapidose et argillose, hic [illegible] deficere.

aut rare aut [illegible] et [illegible]

sic putandum est in quibus utique sicca fiunt terre humidi [illegible] ut precise
fiant hii locorum magis tempore aut [illegible] exsiccata sunt facta
magis alta aut minus quam aquosa donec veniat iterum desiccari
[illegible]

[illegible]

sicut enim quandam permutationem neque terram quia ex corporibus [illegible]
mutat terram neque quemadmodum nos dicimus non eadem sunt loca hec
[illegible] maria et flumina et sicca [illegible]

[illegible]

Manifestat autem sit quos enim antiquissimos esse putamus
Egyptios horum regio tota facta videtur et opus fluminis opus

Et h(ic) s(ecundu)m regionem istam inspicientem palam (est) [illegible] ea q(uod) circa
mare rubru(m) ~~mare~~ argumentu(m) sufficiens. hoc enim regium quis at-
temptavit p(er)fodere. Non enim p(ro)p(ri)as h(ab)et utiles ipsis utilitates na-
vigabiles totus locus fuit. Dicit aut(em) p(ri)mus Sesostris conatus fuisse an-
tiquoru(m). Sed invenit mare existens altius terra p(ro)pter q(uo)d i(dest) p(ri)mo q(ui)dem
[illegible] postquam cessavit fodiens ut non corrumperetur fluvius fluminis co(m)-
mixto mari [illegible] mare [illegible] omni [illegible]
quod [illegible] circa Libiam maximam regionem [illegible]
[illegible] regionis palam [illegible] altacion(e) [illegible]
[illegible] tempore [illegible] delicta et stagnata aqua dissiccata [illegible]

[illegible]

egyptus ali orgadte [illegible]

[illegible]

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~~[illegible] regio egipti [illegible] valde [illegible]~~ [illegible] [illegible] [illegible] locis
[illegible] prius stagna et postea post [illegible] temporis [illegible] loca [illegible] derelicta
arida et aqua stagnalis [illegible] et aqua cooperta et tunc postea [illegible]
[illegible] [illegible] loca [illegible] [illegible] Item [illegible] [illegible]
[illegible] circa libyam [illegible] [illegible] cooperta [illegible]
libiam [illegible] [illegible] loca [illegible] circa libiam [illegible]
[illegible] regio [illegible] libie [illegible] egipto [illegible]
[illegible] circa libiam mauritaniam [illegible] egipto [illegible] libiam
in regiones [illegible] inter quas [illegible] mauritaniam [illegible]
et mauritaniam [illegible] et mauritania [illegible]
[illegible] egipto [illegible]
[illegible] circa meotidem paludem [illegible]
attritionem fluminum [illegible] ut [illegible] magne naves nunc
[illegible] ad [illegible] anno sexagesimo [illegible]
facile pertransire [illegible] stagnorum [illegible]
[illegible] fluminum [illegible]
[illegible] quod [illegible] signo [illegible] loca [illegible] meotidem
paludem [illegible] ut naves [illegible]
magne [illegible] fluminis ad [illegible] anno
[illegible] facile [illegible] stagnum [illegible]
paludis meotidis [illegible] stagnum [illegible]
[illegible] stagnum [illegible]
[illegible] paludem [illegible] meotidem
naves [illegible] fluminis [illegible] magne
[illegible] [illegible] stagna et paludes
[illegible] stagna et paludes [illegible]
[illegible] Adhuc autem Bosforum [illegible] quod flu
[illegible] ab Asia interceptum faciebat [illegible] fluvius [illegible]
stagnum [illegible]
post hec autem [illegible] stagnum [illegible]
[illegible] sepe [illegible] tempore [illegible]
fluvium [illegible]
[illegible] signo [illegible] quod [illegible]
[illegible] Adhuc autem bosforum [illegible] mare [illegible]
[illegible] [illegible]
[illegible] in europam faciebat interceptum [illegible] mare [illegible] ab Asia
[illegible] [illegible]
[illegible] faciebat [illegible] faciebat [illegible]
[illegible] mare [illegible] faciebat [illegible]
[illegible] sepe [illegible] tempore [illegible] aliud mare [illegible]
velut flumen [illegible] illud [illegible] ista est
[illegible] mare mediterraneum [illegible] mare [illegible] ab occasu [illegible]
[illegible] [illegible] ad septentrionem [illegible]
[illegible] mare [illegible] Ellespontum [illegible] ad septentrionem [illegible]
[illegible] in angustias septem stadiorum [illegible]

mediterraneum

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c(irca) postea dissensus [illegible] stagni c(irca) fit ponticum vel mare ponticum ponticum

c(irca) post hoc in angulos [illegible] c(irca) tunc fit bosphorus — Item nota

[illegible] strictos [illegible] sicca [illegible] mundales [illegible]

[illegible] secundum [illegible] [illegible] et strictis c(irca) [illegible] aut post eius [illegible]

[illegible] [illegible] mare [illegible] mortua [illegible] illi mare hoc [illegible]

[illegible] mare [illegible] ab [illegible] [illegible] est

ponticum [illegible] ponticum [illegible] fluendo c(irca) [illegible] mare post plus [illegible]

[illegible] bosphorus a [illegible] vel augusti [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] potest [illegible] [illegible]

[illegible] [illegible] — Item nota [illegible] mare [illegible] bosphorus [illegible] philosophus

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] fluvium [illegible] [illegible]

[illegible] siccabat [illegible] ab illa [illegible] [illegible]

[illegible] stagnum [illegible] stagnum fuit [illegible] [illegible]

[illegible] siccabat aliud stagnum [illegible] [illegible]

[illegible] c(irca) hoc accidit post [illegible] [illegible] [illegible] post

lapsum temporis [illegible] mare [illegible] fluvium [illegible] [illegible] quod [illegible]

[illegible] [illegible] mare [illegible] Mani [illegible] [illegible] tempus

non deficit [illegible] [illegible] neque tanays neque nylus [illegible] fluvius

[illegible] [illegible] loca [illegible] fluunt c(irca) [illegible] tempus c(irca) [illegible]

aut non [illegible] c(irca) similiter aut hoc [illegible] in aliis fluviis [illegible] [illegible]

[illegible] c(irca) fluvii fuit [illegible] corrumpuntur c(irca) non [illegible] eadem loca terre [illegible]

[illegible] mare [illegible] permutari [illegible] aut [illegible] [illegible] [illegible]

[illegible] [illegible] mare [illegible] [illegible] non [illegible] [illegible] [illegible]

[illegible] mare [illegible] aut arida [illegible] permutatur [illegible] terre omnia c(irca) [illegible]

[illegible] non [illegible] eadem [illegible] arida [illegible] terre neque natabilia [illegible]

[illegible] hoc accidit [illegible] similiter [illegible] [illegible] [illegible]

[illegible] aut non sunt fluminum c(irca) [illegible] philosophus infert [illegible]

[illegible] [illegible] [illegible] epilogat [illegible] [illegible]

[illegible] c(irca) [illegible] [illegible] non deficit [illegible] [illegible] neque [illegible]

[illegible] [illegible] [illegible] neque nylus [illegible] fluvius [illegible] [illegible] loca [illegible]

[illegible] fluvii fluunt [illegible] [illegible] [illegible] fluvius [illegible] [illegible] aut

[illegible] [illegible] [illegible] [illegible] alii fluvii [illegible]

[illegible] [illegible] eadem loca terre [illegible] aquosa [illegible] permutari [illegible]

[illegible] mare deserere [illegible] loca terre [illegible] [illegible] loca terre [illegible]

[illegible] [illegible] eadem loca [illegible] terre [illegible] mare [illegible] permutatur

[illegible] [illegible] epilogando [illegible] eadem loca [illegible] arida

[illegible] eadem terre loca [illegible] natabilia c(irca) [illegible] [illegible] accidit [illegible]

[illegible] [illegible] fluvii [illegible] longe [illegible] [illegible]

[illegible] [illegible] vel [illegible] fluvii [illegible] [illegible] — Item [illegible]

[illegible] [illegible] [illegible] [illegible] tempus [illegible] novo [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] loca [illegible] [illegible]

[illegible] — Item nota [illegible] permutatio maris c(irca) [illegible]

[illegible] [illegible] mare permutatur [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] eadem loca terre [illegible] mare [illegible]

[illegible] loca terre [illegible] arida [illegible] permutatur c(irca) [illegible] [illegible]

Margin: Nota [illegible]; [illegible]; medietas [illegible]; [illegible]; epilogat [illegible]; Epilogus

De mari autem et que natura ipsius et propter quam causam est salsa tanta aque multitudo adhuc autem de ea quod a principio generatione dicamus. [illegible]

[illegible] Antiquum quidem et [illegible] sancti circa theologias faciunt ipsius fontes ut ipsi sint principia et radices terre et maris magis tragicum sic et venerabilius existimantes forte quod dicitur terram magna quedam pars omnis esse et reliqui celi totum circa hunc locum consistere huius gratia terram existentem honoratissimum et principium. [illegible]

[illegible] sapientia faciunt ipsius generationem. Esse enim primo humidum omnem locum qui circa terram. A sole autem exsiccatum, evaporans quidem spiritus et versiones solis et lune aiunt facere. Relictum autem mare esse. Propter quod et minus fieri exsiccatum putant et tandem fore aliquando totum siccum. [illegible]

qui est sub terra esse humidum / Sed postea aliud locum esse exsiccatum a sole et p[ropter]
hoc dicit evaporationes solis et hinc fieri quod aer vel vapor vel venti [illegible]
[illegible] de aqua. Sed ultimum post tertiam exsiccationem dicunt esse mare / propter quod ipsi
credunt mare exsiccatum fieri [illegible] et tunc mare aquam ultimo esse [illegible]
[illegible] haec opinio quam tenuerunt antiqui plures scilicet Diogenes et Anaximander
dicentes mare esse quemdam humorem / quia primo totus locus circa terram fuit aquis coopertus
et postea aliqua loca fuerunt exsiccata propter virtutem solis et vapores resoluti sunt ab aqua per
motum solis et lune / qui postea [illegible] in aerem vel in ignem [illegible]
fiebat ex parte maxima ubi sol [illegible] de aqua circa terram
[illegible] mare [illegible] propter exsiccationem sit quod ipsum
tandem siccabitur totum siccum erit. Quidam autem ipsorum aiunt calefactam a sole terram
velut sudorem facere propter quod et salsum esse et etiam sudor salsus. Hic philosophus
ponit opiniones de salsedine maris et sunt due opiniones [illegible] prima
[illegible] at ipsorum philosophorum dicunt terram calefactam a sole facere distillationem aque velut
sudorem propter quod [illegible] mare salsum esse sicut sudor est salsus et ista fuit opinio
Empedoclis [illegible] est [illegible] ista opinio [illegible] Nam sicut
terra calefacta a sole aquam distillat sicut sudor et quod sic fiat mare / ita quod mare
non sit aliud quam sudor terre [illegible] sudor est salsus sic et mare est salsum [illegible]
[illegible] sudor distillet ad ipsum mare et commixtum ipsum facit ipsum salsum esse
Quidam autem salsedinis causam terram esse aiunt. Quemadmodum enim
quod per cinerem colatur salsum fit eodem modo et hoc salsum esse mixta
ipsi tali terra. Hic philosophus ponit secundam opinionem dicens. Sed quidam philosophi
dixerunt terram esse causam salsedinis maris / quia quemadmodum aliud fit salsum quod colatur
id est colando mittitur per cinerem et eodem modo mare accipit esse salsum terra combusta et
salsa commixta sibi. Et haec est opinio Anaxagore [illegible]
opinio stat in hoc quod mare sit salsum ex eo quod transit multa loca terre sulfurea
et salsa [illegible] ex eo quod multi fluvii maximi transeunt per salsas venas terre et aqua
que colatur [illegible] sit salsa sic et [illegible]
sit salsa [illegible]. Quecumque fontes maris impossibile esse per considerationem
considerantibus. Aquarum enim que circa terram hec quidem fluviales continue
hec autem stationales. Fluviales quidem igitur omnes fontales sunt.
De fontibus autem diximus prius quod oportet intelligere non tamquam ex vase [illegible]
[illegible] principium esse fontes sed ad primum semper factum et confluere [illegible]
primum. Stationalium autem hec quidem collective et substantive velut
paludinose et quecumque stagnales multitudine et paucitate differentes
hec autem fontanee. Hec autem omnes manufacte, dico autem velut
puteales vocate. Omnium enim superius oportet fontes esse fluxus. Propter
quod hec quidem spontanee fluunt que fontales et fluviales, hec
autem arte indigent operante. Differencie quidem igitur tot et tales aquarum
sunt. Hic philosophus incipit contra istas opiniones [illegible]
[illegible] maris [illegible] in isto capitulo [illegible]
[illegible]
[illegible]
[illegible] fontes maris [illegible]
[illegible] circa terram [illegible] hec aque [illegible] fluviales. Sed hec
aque [illegible] stationales [illegible] omnes aque fluviales sunt
fontales [illegible] de fontibus [illegible] intelligere
[illegible] aquarum

contine esse de novo generata et ipsam constituens [illegible] r. primo generatur ad [illegible]
Et dicit [illegible] stationalis aque hec quidem sunt collecte ex fluminibus pluviis [illegible] ex aliis [illegible]
[illegible] aliorum [illegible] sunt [illegible] consistentes in loco agitationis sine
motu [illegible] velut sunt aque paludose et [illegible] sunt stagnalia [illegible] ista solum
sunt [illegible] et [illegible] et hec sunt [illegible]
manifeste Et omnis iste sunt [illegible] artificiales [illegible] [illegible] ex fontibus
et putealia [illegible] aque que sunt fonte [illegible] aque [illegible]
hec aque sunt fluviales et fontales fluunt spontanee [illegible]
[illegible] arte [illegible] et [illegible] putealis
[illegible] ista [illegible] est Item
[illegible] ex fontibus in [illegible]
[illegible] ex fontibus [illegible] fontales [illegible]
[illegible] de novo [illegible] aquis fontium [illegible]
Item [illegible] de [illegible] aque stationalis [illegible] manifeste
et [illegible] in quo loco [illegible]
aque [illegible] paludose et stagnales [illegible]
[illegible] stationalis [illegible] ex fontibus [illegible]
[illegible] artificium [illegible] tales ac sunt aque putealis [illegible] fluunt ex
fontibus [illegible] ad locum putei manifeste [illegible] Item [illegible] fluunt ex
[illegible] aqua [illegible] et est [illegible] aquarum [illegible]
[illegible] aque fluente fluunt spontanee [illegible]
sunt fontales [illegible] fluunt per artificium [illegible] a loco ad
[illegible] aque [illegible] puta putei [illegible]
putei [illegible] manifesta [illegible] [illegible] sunt [illegible]
fontes et maria. Inconveniens enim hoc quidem possibile esse ipsum
Neque enim effluentia est neque manifesta fontales ac omnes
horum aliorum passe sunt. Spontaneas autem stationarias et tantam multitudinem nullam videmus fontale [illegible]
[illegible] posita [illegible] assignat [illegible]
tollendo [illegible] fluvios [illegible] adhuc in [illegible]
[illegible] Adhuc autem [illegible] hys autem sunt [illegible]
[illegible] a quibus [illegible] aquarum fontalium
[illegible] neque [illegible] manifeste
vel stationarie [illegible] manifeste [illegible] fontale [illegible]
Nota [illegible] Si aque maris [illegible] ex fontibus [illegible] Item
vel stationaria [illegible] effluens
[illegible] vel stationarie manifesta vel [illegible] manifesta
[illegible] artificiosa vel [illegible] artificios [illegible]
fontanam [illegible] vel [illegible] tanta
[illegible] et [illegible] maris [illegible] stationaria
[illegible] aque fontalis [illegible] stationaria
[illegible] commixta Adhuc autem quamplurima sunt
maria intra se commixta nulli loco, quorum rubrum quidem
continuatio valde [illegible] modicum communicans ad illud quod extra columpnas,
hyrcanium autem et caspium separata ab hoc et circa habitata in circuitu
[illegible]

Ut non utique latent fontes, si sedem aliquam ipsorum esse locum

[illegible]

Fluxus autem maris videtur secundum angustias, si ubi propter adiacentem terram in modicum ex magna coarctatur pelagus, propter ea quod librari huc et illuc saepe. Hoc autem in magna multitudine maris immanifestum; quod autem propter angustias terrae modicum obtinet locum, necesse eam quae in latu modicam librationem ibi apparere magnam.

[illegible]

Quod autem intra Herculeas columnas totum secundum terram fluit a fluminum multitudine. Meotis quidem in Pontum fluit, iste autem in Egeum; quod autem iam extra haec pelagi minus faciunt hoc evidenter. Illis autem propter fluminum multitudinem accidit hoc: plures enim fluvii in Euxinum fluunt et Meotidem

euxinum · meothidem

[illegible]

aut multiplicem regionem ipsius [illegible]

[illegible]

Et propter breuitatem profundius

meothide quidem pontus, hoc autem egeum, egeo autem siculum, sardinum et tirrenum profundissima omnium. Que autem extra columpnas, breuia quidem propter lutum, sine flatu autem sunt in occeano mari existentia sicut in fluminibus. Apparet fluctus [illegible] fit et totius terre [illegible] ad arctum, fluuius fit plurimus [illegible] vt hi quidem propter effusionem non profundi, tirrenum autem et pelagi profundi magis [illegible]

[illegible]

[illegible] loca profunda [illegible] mare [illegible] loca profunda [illegible] [illegible] [illegible] mare [illegible] [illegible] Sicilia [illegible] [illegible] mediterraneum [illegible] Sicilia [illegible] loca mare [illegible] loca septentrionalia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] loca meridionalia [illegible] loca septentrionalia [illegible] [illegible] [illegible] [illegible] valde alti [illegible] [illegible] ad loca aque [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] loca meridionalibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] loca profunda [illegible].

De eo autem quod ad arctum sunt terre alta sunt signum quoddam et multos persuasit antiquorum meteorologorum solem non ferri subtus sed circa terram et locum hunc disparere autem et facere noctem propterea quod alta sit ad arctum terra. Quod quidem igitur neque fontes possibile sit esse maris et propter quam causam sic videntur fluentes talia et tanta nobis dicta sunt. [illegible] loca septentrionalia [illegible] [illegible] [illegible] [illegible] [illegible] loca [illegible] loca septentrionalia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] loca [illegible] septentrionalia [illegible] alta.

De generatione autem ipsius si factum est et de sapore que est causa salsedinis et amaritudinis dicendum. [illegible] causa salsedinis [illegible] et amaritudinis. Causa quidem igitur que fecit prius putare mare principium esse et corpus omnis aque hec videbitur enim utique rationale esse quemadmodum et aliorum elementorum est aggregata moles et principium propter multitudinem [illegible] [illegible] primum et [illegible] [illegible].

Epilogus

Nota

puta regionis quod [illegible] loci [illegible] ad [illegible] post regionis
loci [illegible] aut [illegible] terra omnia [illegible] potabilis sit maris
[illegible] palam quia [illegible]
[illegible] aliud [illegible] videtur [illegible]
[illegible] maris [illegible] sicut et aliorum
stabile [illegible] ut [illegible] cottidie [illegible]
[illegible] et omnis aqua putatur [illegible] mare [illegible] dubitationem
non [illegible] in hoc [illegible] fluminum
[illegible] falsum [illegible] Colatum [illegible]
[illegible]
[illegible]
[illegible] potabiles [illegible] dulces [illegible] colati [illegible]

Opponi(tur) aut(em) altera ad hanc opinionem dubitatio. Cur quod non est contra aqua [illegible] potabilis sicut primo omnis aque salsa [illegible]

[illegible]

Causa aut(em) sunt [illegible] de mari [illegible] [illegible] ordinatam [illegible] sicut [illegible] [illegible] vt plurimi dicunt sicut ut nos [illegible]

[illegible]

[illegible] dato aut(em) sole [illegible] [illegible] permutationes et generationes et corruptiones [illegible] subtilissimum et dulcissimum sursum duci per singulos dies et fieri [illegible] [illegible] et vapori [illegible] superiorem locum. [illegible] aut(em) rursus [illegible] [illegible]

[illegible] ipse et dixerunt [illegible]

[illegible] facere visiones [illegible]

[illegible] alimentum usque ad hoc [illegible]

[illegible] subtilissimum et dulcissimum [illegible]

[illegible]

[illegible]

non est simile flamma quod cum perpetuum humidum et siccum permutata sit et non alitur, non cum eadem permanet ullo tempore ut dicitur, circa solem autem impossibile hoc accidere, cum aliter enutritur eodem modo sicut illi dicunt, et sol non solum sicut Heraclitus ait novus in die est, sed semper novus continue.

[illegible]

[illegible] sole [illegible] simpliciter [illegible] tempore [illegible]
[illegible] salvatio [illegible]
[illegible] ab humido [illegible] ignis [illegible] alius ignis [illegible]
[illegible] alius et alius sol [illegible] die novus sol [illegible]
[illegible] nocte [illegible] novus sole [illegible] die [illegible] valde multi [illegible]
[illegible] sole [illegible] celi [illegible] celum est
[illegible] sol [illegible] celesti [illegible]
[illegible] Adhuc autem quae a sole elevato humi
di similis est calefactis aquae ab igne. Si enim neque subsidens
alitur ignis neque sole verisimile est existimare, neque si eam
calefaciens evaporare fecit aer. [illegible] ista opinio [illegible]
[illegible] Adhuc elevato humido [illegible]
sole [illegible] aquae calefactis ab igne [illegible] ignis [illegible] ab
[illegible] aquae calefacte [illegible] verisimile aque [illegible] sole [illegible] ab humido ele
[illegible] sol calefaciens [illegible]
[illegible] a sole [illegible] ab humido elevato [illegible]
[illegible] calefacta ab igne [illegible] elevato a sole [illegible]
[illegible] calefacta ab igne [illegible] vapores
[illegible] a sole [illegible]
[illegible] calefacta [illegible]
[illegible] ab humido [illegible]
[illegible]
[illegible] sol [illegible]
[illegible] sol valde multum [illegible]
aqua est resoluta in vapores valde cito [illegible]
Inveniemus autem et solum curam de sole, aliorum autem astrorum
ipsos neglexisse salutem, tanta et multitudine et magnitudine existentibus.
[illegible] opinio [illegible]
[illegible] de sole [illegible] neglexisse sol
[illegible] astrorum [illegible] aliis astris [illegible] multitudine et magnitudine
[illegible] opinio [illegible] Si sol [illegible] ab
humido elevato [illegible]
[illegible] de sole
[illegible] humido [illegible] sol [illegible] valde multa
[illegible] Sol,
[illegible] ista opinio [illegible] astris [illegible]
[illegible] solis [illegible] Eadem autem accidit et huius vero et dicentibus
primo humida existente terra, et mundo qui circa terram a sole calefactum
aerem fieri, et totum celum augmentatum esse, [illegible] exhibere, et versiones
ipsius facere. Lagani enim sursum productum videmus descen
dens iterum aquam. Et si non [illegible] reddatur [illegible] regiones
similes, in aequalibus ordinatis temporibus redditur omne acceptum. Velut
neque aliis superioribus, neque [illegible] manente aliqua post genera[tionem]
[illegible] corrupto in aere [illegible] ponit [illegible]

causam quare [illegible] dicto contra illos de illa opinione [illegible] Et ex dictis etiam
patet quod humidum [illegible] eo modo quo est terram [illegible] humido [illegible] velut locum quod est terra
terram calefactam a sole [illegible] aeris [illegible] circa [illegible] augmentum [illegible]
augmentum dicunt vapores per [illegible] humectantes [illegible] dicunt facit [illegible]
[illegible] solis quod non videmus mare [illegible] humidum [illegible] sursum [illegible] descendere
[illegible] et [illegible] quod [illegible] humido [illegible] elevata [illegible]
regionem [illegible] humidum [illegible] suo loco [illegible] terra [illegible] superficie [illegible]
[illegible] ordinatis [illegible] corporibus celestibus [illegible] quod
humido elevato [illegible] in aere [illegible] Et potius videtur [illegible] humido [illegible]
[illegible] corrupto in aqua [illegible] (Secundum nonum) [illegible] terra [illegible]
sole [illegible] ab humido [illegible] humidum elevatum [illegible] descendens [illegible]
[illegible] a terra [illegible] Et [illegible]
[illegible] humidum elevatum [illegible] ad solem [illegible] descendit [illegible]
[illegible] accidit [illegible] sole [illegible] ab humido
[illegible] terra [illegible] humidi [illegible] loci [illegible]
[illegible] vapores [illegible] sicut aer [illegible] sicut aer
[illegible] conversionem [illegible] solis [illegible] vapores [illegible] sicut
[illegible] descendat [illegible] vapores elevati [illegible]
a terra [illegible] Et [illegible] aere [illegible]
[illegible] (Secundum nonum) [illegible] valde [illegible]
[illegible] humidi [illegible] descendit [illegible] in aere [illegible]
[illegible] descensus humidi elevati [illegible]
in [illegible] regione elevatur [illegible] descendat [illegible] ordinatis [illegible]
[illegible] descendit [illegible] humido [illegible] elevabatur [illegible] regione [illegible] elevabitur
[illegible] humido [illegible] descendat in [illegible]
alia regione [illegible] humido [illegible] elevatur [illegible]
[illegible] humido [illegible] regione [illegible]
[illegible] elevatio [illegible] (Secundum nonum) [illegible]
[illegible] humido elevato [illegible] illa opinio [illegible]
humidum [illegible] aer [illegible] mare [illegible] opinio [illegible]
[illegible] humidum [illegible] vapores elevatur [illegible] in aere [illegible] (Secundum nonum)
[illegible] humidi [illegible] in aere vel aqua [illegible]
[illegible] mare [illegible] humidum [illegible] in aere [illegible]
[illegible] debita [illegible]
Nota quod [illegible] dulce [illegible] leui[illegible] sursum ducitur [illegible] salsum aut
subtilius [illegible] in [illegible] loco [illegible]
[illegible] dubitationem [illegible] sed non [illegible] locum [illegible]
[illegible] et aliorum elementorum [illegible] solutionem [illegible] Quia enim videmus
locum occupatum [illegible] mare [illegible] mare [illegible]
[illegible] salsum [illegible] mare [illegible] pondus [illegible] dulce [illegible]
tale sursum ducitur [illegible] leuitatem [illegible] soluit [illegible]
vult [illegible] mare [illegible]
in [illegible] mouet [illegible] soluit [illegible] mouet [illegible]
[illegible] mare et flumina [illegible] querit [illegible]
[illegible] humidum [illegible] dulce [illegible] in mari [illegible]
[illegible] mare subtilius [illegible] in loco [illegible]
aque vel maris [illegible]
[illegible] mare [illegible] vel mare [illegible] loci [illegible]
[illegible] loca [illegible] Et [illegible] solutionem [illegible] loci [illegible]

[illegible] maris ex [illegible] maris [illegible] maris [illegible] salso [illegible]
aque [illegible] loci [illegible] maris [illegible] salsa in mari [illegible]
[illegible] dulcis et potabilis [illegible] Item [illegible] est [illegible]
[illegible] loci [illegible] aque [illegible]
[illegible] maris [illegible] loci [illegible] aque [illegible]
[illegible] loco [illegible] maris [illegible]
[illegible] loci [illegible] loci [illegible]
loci ad que [illegible] aque [illegible] Item [illegible]
[illegible] loco sit aqua salsa et non dulcis [illegible] aqua
[illegible] aqua dulcis et potabilis [illegible]
[illegible] aqua salsa et [illegible] maris [illegible]
[illegible] loci [illegible] aqua salsa maris
[illegible] loci [illegible] aqua [illegible]
[illegible] Item [illegible]
[illegible] maris [illegible] aque [illegible]
[illegible] salsa [illegible]
[illegible] aqua [illegible] salsa [illegible]
[illegible] Item [illegible]
[illegible]
[illegible] maris [illegible] salsa [illegible]
[illegible] Item
[illegible] loci [illegible] maris [illegible] loci aqua [illegible]
[illegible] aque [illegible]
[illegible] aqua [illegible]
in aliis corporibus [illegible] dulcis [illegible]
[illegible] amarum [illegible] salsa [illegible] dulce [illegible]
potabile [illegible] carnes [illegible]
[illegible] quis potabile [illegible]
non potest [illegible] ventre [illegible]
[illegible]
[illegible] sicut dictum [illegible] loci [illegible] aque [illegible]
[illegible]
[illegible] potabile [illegible] dulce [illegible] a salso [illegible]
[illegible]
[illegible]
[illegible] dulce [illegible] amarum [illegible] salsa [illegible] dulce et potabile [illegible]
[illegible] carnes [illegible]
[illegible] non potest [illegible]
[illegible] potabilis [illegible]
[illegible] loco [illegible]
[illegible]
[illegible] loci aque [illegible] maris [illegible] aque [illegible]
[illegible] loci [illegible] maris [illegible] loci aqua [illegible]
[illegible]
[illegible]
[illegible] carnes [illegible]

quartam [illegible] [illegible] est aptum natum [illegible] [illegible] est [illegible] [illegible] sepa-
[illegible] subtili [illegible] in vento [illegible] [illegible] [illegible] vel per [illegible]
[illegible] [illegible] [illegible] [illegible] loci alimenti [illegible] [illegible] [illegible] ad [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] in vento [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] mare [illegible] sit locus [illegible] [illegible] [illegible]
salse [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] salsa [illegible] [illegible] [illegible] [illegible] [illegible]
Propter quod et flumina fluunt in ipsum omnes et omne quod fit aqua
[illegible] enim [illegible] maxime [illegible] fluxibus et mare [illegible] obtinet
locum. [illegible] hoc [illegible] [illegible] [illegible] cito [illegible] sole [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ab [illegible] [illegible] [illegible]
ta [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et omnia flumina fluunt in ipsum locum mare et
omnis aqua [illegible] fit [illegible] in [illegible] locum [illegible] fluxibus fit ad illum [illegible] [illegible] [illegible]
[illegible] mare obtinet [illegible] locum [illegible] [illegible] [illegible] omnis aqua [illegible] [illegible] ad locum
[illegible] mare [illegible] [illegible] [illegible] [illegible] cito [illegible] [illegible] sole [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] locus [illegible] aque ad [illegible] [illegible] aqua [illegible] [illegible] fluit
[illegible] sit [illegible] locus in quo [illegible] mare [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fluit
ad locum [illegible] [illegible] [illegible] iste locus quem obtinet mare [illegible] [illegible] [illegible]
Inuenire autem antiquis propter quid tanta multitudo aque nusquam apparet
per singulos enim dies fluminibus fluentibus innumerabilibus et magnitudine immensis
nichil fit mare amplius. Hoc non [illegible] quid inquirere dubitare aliquos
non [illegible] [illegible] difficile [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] multitudo [illegible] [illegible] [illegible] [illegible]
antiquis [illegible] [illegible] propter quid in [illegible] loco [illegible] tanta multitudo aqua [illegible] [illegible]
[illegible] fluit [illegible] mare [illegible] per singulos dies fluentibus fluminibus [illegible] [illegible] [illegible]
et immensis [illegible] [illegible] et magnitudine [illegible] magnitudine mare nichil fit amplius [illegible]
non fit [illegible] [illegible] [illegible] nullus [illegible] [illegible] aliquos dubitare [illegible] [illegible] [illegible]
[illegible] difficile [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dubitatio
[illegible] [illegible] [illegible] mare non augeretur [illegible] [illegible] [illegible] [illegible] [illegible]
et mare [illegible] [illegible] in ipsum. Et [illegible] [illegible] ista sit [illegible] [illegible] dubitatio
[illegible] [illegible] [illegible] antiquis [illegible] [illegible] magnitudo [illegible] [illegible] dubitatio. [illegible] [illegible]
[illegible] [illegible] [illegible] difficile [illegible] [illegible] [illegible]. Eadem enim multitudo aque in
latum diffusa et [illegible] simul non in [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] diem. [illegible] [illegible] [illegible] [illegible]
super mensam [illegible] diffunderet aque [illegible] simul [illegible] [illegible]
[illegible] [illegible] quod utique et [illegible] flumina accidit. [illegible]
[illegible] fluentibus simul [illegible] [illegible] [illegible] peruenit [illegible] [illegible] et latum locum
[illegible] cito et latenter [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] aqua [illegible] diffusa et tanta multitudo aqua [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] in quo [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] aqua [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aqua diffusa cito
[illegible] [illegible] diffunderet [illegible] [illegible] [illegible] [illegible] aqua [illegible] [illegible] [illegible]
[illegible] [illegible] fluminibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] diffusa [illegible] late
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] alia
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] diffusa [illegible]

valde cito [illegible] Si ergo ab eis [illegible] plenus aqua [illegible]
[illegible] valde [illegible]
[illegible] valde
cito [illegible] fluminis [illegible]
[illegible] venit ad locum magnum et latum [illegible]
[illegible] cito [illegible] vapores [illegible] aqua [illegible]
[illegible]
[illegible] Albertus dicit [illegible] Quod autem secundum [illegible] in secunda
[illegible] fluminis et maris [illegible] quidam [illegible] quod [illegible] per-
forata sit terra [illegible] sit [illegible] et fons aque vocatus tar-
tarus [illegible] medium aque quod [illegible] aque et fluentia et [illegible] flu-
entia [illegible] omnia [illegible] plenus [illegible] fluvius
[illegible] ibi [illegible]
[illegible] aque [illegible]
[illegible] vapores [illegible]
[illegible] aque [illegible]
[illegible] plenus [illegible] fluminis [illegible]
[illegible] terra [illegible]
[illegible] terra [illegible]
[illegible] tartarus [illegible] fontes aque [illegible] tartarus
[illegible] fluentia [illegible] causa [illegible]
[illegible] fluvius [illegible]
[illegible] tartarus [illegible]
[illegible] fluentes [illegible] omnia
loca terre in quibus [illegible] aqua [illegible] terra [illegible]
[illegible] fluvius [illegible] terre in [illegible]
[illegible] facere ad singula [illegible] movetur
semper [illegible] neque [illegible] semper [illegible]
[illegible] motu [illegible] sursum et deorsum facere [illegible]
[illegible] quod locis stagnantibus [illegible] apud nos
[illegible] maris [illegible] movetur
[illegible] multa [illegible]
[illegible] fluvius [illegible] deorsum [illegible]
[illegible] ad medium [illegible] ad sursum [illegible] omnibus
[illegible] plenus aqua [illegible]
dicens [illegible] in [illegible] tartarus [illegible] aque [illegible] flu-
[illegible] loca [illegible] fluvius [illegible] tar-
tarus [illegible]
[illegible] tartarus [illegible] aquas
[illegible] fluvius [illegible] stagnantia [illegible]
[illegible] apud nos [illegible]
[illegible] aque [illegible] fluvius [illegible] loca
[illegible] fluvius [illegible]
[illegible] aqua [illegible] fluvius [illegible]
aquas [illegible] superius [illegible]
[illegible] aque [illegible] ad sursum [illegible]
[illegible] aquas [illegible]
[illegible] terra [illegible] aque [illegible]
[illegible]

ad omnia loca fluminum [illegible] ...

[illegible]

aquas ad [illegible] loca [illegible] ... effundit

apud nos [illegible] ...

[illegible]

fluit ex Tartaro [illegible] ...

[illegible]

Sapores eius et colores trahit aqua [illegible] ...

[illegible]

corrigit fluxus Tartarus [illegible] ...

[illegible]

Neque enim flumen fluit nisi ad eundem [illegible] ...

Cum eius in medium influunt aquae [illegible] effluunt [illegible] ...

fluunt [illegible] ...

[illegible]

aqua [illegible] ducit [illegible] ... Hoc [illegible] ...

[illegible]

Tartarus [illegible] ...

sequitur quod ... aqua veniet ... ad ipsa flumina ... [illegible] ... quia ... ista
... [illegible] ... tota aqua ... [illegible]
aqua effluit ... [illegible] ... sic ... [illegible]
... [illegible] ... effluente ... [illegible]
... [illegible] ... aqua pluvialis ... [illegible] ... Quare
... [illegible] ... Cum igitur omnes fluvii ... fluant
ad mare ... [illegible] ... in terram aut nullus ... [illegible]
... [illegible] ... dictos ... [illegible]
flumina ... ad mare ... [illegible]
... [illegible] ... fluvii ... [illegible]
terram ... mare ... terra ... [illegible]
... fluvius ... in terram ... [illegible]
in terra ... [illegible]
fluvii ... flumina ... mare ... [illegible]
... sub terra ... [illegible]
... fluvii ... [illegible]
... in terram ... [illegible]
... in terram ... [illegible]
... Magni autem sunt fluminum qui
longe fluunt per terram ... multorum enim suscipiunt ... fluminum
determinatis locis et longitudine ... quare ... Ister et Nilus
maximi fluminum sunt ... in mare ... [illegible]
sicut ... [illegible] ... in eodem ... [illegible]
... [illegible] ... dictos ... [illegible] ... magni ...
fluunt longe ... terra ... fluvii ... [illegible]
... multorum fluminum ... loco ... [illegible]
... Ister et Nilus ... [illegible]
... [illegible] ... fluminum ... [illegible]
... [illegible]
... [illegible] ... in unum flumen ... [illegible]
... [illegible] ... fluvii ... [illegible]
... [illegible]
fluminis ... [illegible]
... [illegible] ... in aquis ... [illegible] ... fluvii ...
... [illegible] ... longe ... [illegible]
... flumina ... [illegible]
... illa flumina ... [illegible]
... magni ... fluminis ... [illegible]
... flumina ... [illegible]
... [illegible]
... [illegible] ... fluvii ... [illegible]
... in mare ... [illegible] ... fluvii
... [illegible] ... fluvii ... [illegible]
... [illegible] ... fluvii ... [illegible]
ex fontibus ... Haec igitur omnia ... [illegible]
... mare ... [illegible]
... [illegible]
... [illegible] ... mare ... [illegible]
... [illegible] ... Nota

[illegible]

[illegible]

Dicimus quidem igitur aque locum esse istum, sed non maris [illegible] propter quod quidem potabiles et dulces [illegible] omnes fluvii [illegible] hoc autem subsidens [illegible] quia tenuior magis aqua [illegible] potabilis est magis [illegible] admodum et in corporibus residua alimenti et omnis residentia [illegible] que dicta sunt et de quibus tacta nobis [illegible]

[illegible]

c. iii. De salsedine autem ipsius dicendum et utrum semper eadem an neque erat neque erit sed deficiet [illegible] et sic putant quidam [illegible]

[illegible]

Hoc quidem [illegible] ipsum sed omnes confitentur [illegible] si quidem et omnis [illegible] sunt cum ipsum faciunt quidam [illegible] palam quod sequitur [illegible] et de mari consimiliter [illegible]

[illegible]

Putare autem minorem fieri mare et finem, sicut ait Democritus, et tandem deficere ab Esopi fabulis nichil differre videtur. In proposito sic, etenim ille fabulose composuit quod bis quidem Caribdis resorbens, primo quidem montes fecit manifestos, secundo insulas, ultimo autem sorbens aridam omnino faciet. Illi quidem [illegible] cogruebat iratus ad potentem [illegible] dicere fabulam, veritatem autem querentibus minime. Hic philosophus improbat [illegible]

[illegible]

[illegible]

Contingit autem hanc suspicionem de mari [illegible]

[illegible]

De salsedine autem huius quidem qui sunt [illegible]

salsum

i tollit eorum gravamen, impugnatur quia terram dicit salsam. Si enim dimis
humidi [...] ad terram est et elevati a sole residuum terre quia maris

[illegible]

inconveniens est et fluvios salsos esse. Tertio autem cum possibile in mari quidem multitudine aquae eundem sic facere immixtionem [illegible]

quidem autem fluviorum non. Palam enim quod mare [illegible] omnis fluvialis aqua in nullo enim differebat nisi [illegible] salsum sit a fluviis. Hec est

opinio de salsedine maris [illegible] veritatem [illegible] imp[ro]bat [illegible]

[illegible] Empedoclis [illegible]

[illegible] salsedo maris [illegible]

[illegible] a fluviis ad mare [illegible]

[illegible] ista opinio [illegible]

[illegible] fluviis [illegible] salsedo [illegible]

Nota [illegible] opinio [illegible] quod fluvii non sunt [illegible]

89° [illegible] mare [illegible] salsum [illegible]

[illegible] opinio [illegible] salsedinem [illegible]

[illegible] fluvii [illegible] salsedine [illegible]

[illegible] mare [illegible] fluviis [illegible] salse [illegible] salsedo in ipso mari [illegible]

Et si quis dicens sudorem esse terre mare putat aliquid planum dicere,

sicut Empedocles ad poesim quidem cum sic dicens forte dicit

sufficienter; metaphora enim poeticum, ad cognoscendum autem naturam non sufficienter.

[illegible] opinionem [illegible] de salsedine maris [illegible] Empedoclis [illegible] salsedinem maris [illegible] aliquid planum [illegible] Empedocles [illegible] planum [illegible] salsedinem maris [illegible] poetam [illegible] metaphoram [illegible] ad cognoscendum naturam [illegible] ista opinio [illegible] veritatem [illegible] sudorem [illegible] mare [illegible] sudor [illegible] salsus [illegible] mare [illegible] salsedo [illegible] ista opinio [illegible] opinio [illegible] Empedocles [illegible] [illegible]

absce[n]dent

Neque enim hic palam qualiter ex dulci potu salsus fit sudor: utrum abscedente quodam solum, puta dulcissimo, an commixto quodam, sicut in hiis que per cinerem colantur aquis, vel autem [illegible] substantia [illegible]

2

[illegible] vesica [illegible] supplendo — potabile

collatum (ceterum illud amarum et salsum fit potato in eo quod in alim[illegible] 56
eo liquido dulci contento [illegible] phus dicit [illegible] opinio [illegible] debite causam
assignare causam salsedinis maris. Et quando in dictis [illegible] ponit duas causas quibus
videtur quod sit salsus [illegible] dicunt [illegible] maris [illegible] 2o autem [illegible] causas [illegible]
[illegible] opinio [illegible]
[illegible] dulci potato vel [illegible] fit salsus sudor [illegible]
[illegible] quod [illegible] grosso [illegible] fiat quod [illegible] grosso [illegible]
[illegible] dulci potato vel [illegible] aquae [illegible] colat [illegible]
[illegible] salsedine sudoris [illegible] vesica [illegible]
[illegible] collatum [illegible] fit amarum et salsum [illegible] potato [illegible] dulci [illegible]
[illegible] fit potabile [illegible] dulce [illegible] 4o 57
[illegible] ista opinio [illegible] maris fit sudor [illegible] fit salsus [illegible]
[illegible] ista opinio [illegible] posset debite assignare causam salsedinis maris [illegible]
[illegible] sudor [illegible] salsus [illegible]
[illegible] ista [illegible] subtile et dulce
[illegible] amarum [illegible] ista [illegible]
[illegible] grosso [illegible] fiat [illegible] amarum [illegible] aquae colata [illegible] fit [illegible]
[illegible] fit salsa [illegible] assignare causam salsedinis maris
[illegible] grossi vel [illegible]
[illegible] fit potabile et dulce [illegible] Et itaque [illegible]
quae per calorem [illegible] aqua [illegible] fit [illegible] cum vina [illegible]
[illegible] qualis [illegible] in vase salso
[illegible] segregata [illegible] veluti ablutae [illegible]
[illegible] corpore [illegible] in mari [illegible]
[illegible] salsedinis [illegible] in corpore quod [illegible] fit tale [illegible]
[illegible] indigestionem [illegible] in terra [illegible] quae modum [illegible]
[illegible] autem quod possibile [illegible] aquae [illegible] calefactam
segregari [illegible] in terra et per[illegible] aquae
[illegible] causa salsedinis [illegible] assignari [illegible] opinio
[illegible] 2o [illegible] Secundo autem [illegible]
[illegible] fit salsa [illegible] calorem
[illegible] fit salsa [illegible] vina [illegible] salsa [illegible]
[illegible] grossa [illegible] salsedo [illegible]
[illegible] sunt [illegible] vina [illegible] sudor [illegible] salsus [illegible]
[illegible] aqua [illegible] grossa [illegible]
abluto a carnibus [illegible] salsa [illegible] mari [illegible]
[illegible] in mari [illegible] salsedinis [illegible] grossa
[illegible] fit [illegible] indigesta [illegible]
[illegible] in terra [illegible] mari [illegible]
[illegible] aquae [illegible] calefactam
[illegible] aquae [illegible] in terra [illegible] 4 2o
[illegible] opinio [illegible] maris [illegible]
[illegible] salsedinis maris [illegible] salsa [illegible]
[illegible] grossi [illegible]
[illegible] calore [illegible] colata fit [illegible]
[illegible] salsedini [illegible]
[illegible] salsa [illegible]
sudor in corpore [illegible] salsus [illegible] segregata [illegible] grossa

[illegible] carnibus [illegible] humidi sudorosi ablui [illegible] grosso [illegible] carnibus [illegible] mar

[illegible] salsa [illegible] partes [illegible] salse sunt [illegible] humido [illegible] mar [illegible]

[illegible] terra humido [illegible] abluit [illegible] partes [illegible] a terra [illegible]

[illegible] salsedinis [illegible] sole [illegible] sudore alis [illegible] opinio [illegible]

[illegible] [illegible] alis fit grosso et amaro [illegible]

ca [illegible] assignari in terra [illegible] mar salsedo fiat per elevacionem humidi

[illegible] ab ipsa [illegible] destructionem [illegible] calefactionem [illegible] tanta [illegible]

[illegible] mar [illegible] elevata ab ipso mari [illegible]

Hec [illegible] terra [illegible] tanta [illegible] terra [illegible]

ab ipso mari [illegible] tunc [illegible] mar [illegible] illius humidi elevati [illegible]

[illegible] adducta ab antiquis [illegible]

[illegible] salsa in terra [illegible] sudor [illegible] humidi [illegible] dulce

[illegible] humidi [illegible] humidi dulce [illegible]

a singulis [illegible] Adhuc autem [illegible] nunc cum [illegible]

cata sunt terra [illegible] amplior [illegible] minor [illegible] sudat [illegible] humiditas [illegible]

sunt amara [illegible] tunc [illegible] nunc oportebit [illegible]

aut [illegible] humida [illegible] [illegible] terra autem [illegible] nichil

[illegible] terra sudare [illegible] magis [illegible] sicut [illegible] quedam assumpto

plurimo et elevato humido [illegible] mar [illegible] humidam [illegible]

[illegible] sudare [illegible] [illegible] salsedinis causam effugere

vire [illegible] [illegible] improbat opinionem [illegible] in se Et primo facit

[illegible] concludit [illegible] comparando [illegible] opinionem ad opinionem [illegible]

[illegible] [illegible] epilogat [illegible]

[illegible] Adhuc [illegible] terra [illegible] sunt [illegible] adhuc [illegible] sudat [illegible]

amplior et maior [illegible] minor [illegible] humiditas [illegible] sudor sunt amara [illegible] quia

[illegible] terra [illegible] humida [illegible] oportebit [illegible]

[illegible] terra [illegible] humida [illegible]

[illegible] sudare [illegible] humida [illegible] [illegible]

[illegible] sudat [illegible] epilogat [illegible]

[illegible] opinionem [illegible] terra calefacta a sole [illegible] sudorem [illegible]

[illegible] terra a sole calefacta sudaret [illegible] amarum [illegible]

[illegible] terra [illegible] sudorem [illegible] adhuc [illegible]

[illegible] terra [illegible] humida [illegible] solis [illegible] sunt [illegible]

sudare [illegible] opinionem [illegible] salsedinis [illegible]

[illegible] terra [illegible] humida [illegible] sudaret [illegible]

[illegible] humida [illegible] a [illegible] humidi [illegible] mar

[illegible] terra [illegible] humida sudare [illegible]

tanta humido [illegible] in [illegible] ab antiquis de

salsedine maris [illegible]

Nos autem dicamus principium [illegible] [illegible] cum [illegible]

est duplex exalacio [illegible] humida [illegible] sicca.

2. [illegible] exalacionis [illegible]

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palam quod [illegible] putamus esse [illegible] [illegible] [illegible] [illegible] in quo [illegible]
[illegible] salsedine maris [illegible] [illegible] opiniones [illegible] [illegible] [illegible]
valentes [illegible] [illegible] [illegible] [illegible] [illegible] salsedinis [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible]
[illegible] [illegible] [illegible] [illegible] salsedine maris [illegible] [illegible]
[illegible] exalacionem [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] maris [illegible] exalacionem [illegible] esse [illegible] [illegible] [illegible]
salsedinis maris [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
exalacionem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et
[illegible] [illegible] vapor [illegible] [illegible] [illegible] [illegible] exalacio
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] exalacionem [illegible] salsedinis maris [illegible] [illegible]
[illegible] [illegible] Et [illegible] [illegible] dubitasse [illegible] [illegible]
et mare [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] quemadmodum aer [illegible] aqua et ignis [illegible] aliud
[illegible] aliud [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] manet
[illegible] fluentem aquarum [illegible] flumina fluunt [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] de omnibus [illegible] [illegible]
[illegible] velocitate [illegible] tarditate [illegible] in omnibus [illegible] corruptis
[illegible] [illegible] [illegible] ordine [illegible] omnibus [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] dubitasse [illegible] [illegible] mare [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aer [illegible] [illegible]
[illegible] [illegible] aliud [illegible] aliud [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] maris
[illegible] [illegible] [illegible] [illegible] [illegible] de omnibus [illegible] [illegible] [illegible]
[illegible] [illegible] velocitate [illegible] tarditate [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] ordine [illegible] [illegible]
[illegible] [illegible] [illegible] opinione [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] opiniones [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] dubitacionem [illegible] [illegible] [illegible] dubitasse
[illegible] [illegible] Et est [illegible] [illegible] mare [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] aqua [illegible] ignis [illegible] [illegible]
[illegible] [illegible] [illegible] aliud [illegible] aliud [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] maris [illegible] aer [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] velocitate
[illegible] tarditate [illegible] [illegible] velocius [illegible] [illegible] tardius [illegible]
[illegible] aer [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
ordine [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] de salsedine [illegible] [illegible] [illegible]
multa signa [illegible] [illegible] sapor [illegible] [illegible] [illegible] in corporibus
[illegible] [illegible] [illegible] salsum [illegible] amarum [illegible] [illegible] [illegible]

digestissimum cum sit humidi alimenti, talis autem omnis hypostasis maxime autem si in vesicam. Digestum autem omnia subtilissima et digesta autem omnia costae nata sunt. Dentum semper in quibus idem color cum sedimento quod facit saporem humidum aut in adustis ubi cum utique non obtinuit calidum in corporibus quod sit superfluitas in adustis autem. Cuius ...

[illegible]

... quod magis humidi et adusta agunt et sunt ... dicit magis ... et in toto ... nascentibus et ... quod ... que in acida ...

[illegible] terra adusta ... [illegible] ... calide et secce

omnium autem horum causa ... ascendit multa, haec autem multa ... evaporatio autem multa
contra sicut diximus vaporosa exalatio et sicca, cum constituit hoc
nubes et aquam iterum multi ibi [illegible] ordine aquas
multi [illegible] [illegible] et sunt deorsum ... plura ... et hoc
semper facit secundum eundem ordinem ut contingit ... principale [illegible]
vii quod [illegible] quare salsitudo inest in aqua dicendum est [illegible]
[illegible] applicat ad mare et ad quosdam fluvios et fontes ... [illegible]
[illegible] ipso ... [illegible] aut causa salsitudinis ... aut causa salsitudinis
quorundam fluminum et fontium ... [illegible] ... secundo aut quare
mare [illegible] salsum ... quod [illegible] ... [illegible]
ad declarandum [illegible] quod [illegible] ... [illegible]
evaporatio ... [illegible] ... [illegible] commixtionem ... [illegible]
[illegible] ... mare [illegible] quod signum ... auctor
[illegible] commixtio terrestris passa a calido et ... totaliter [illegible]
[illegible] ... salsitudinis ... mare ... salsum ex terra adusta ... [illegible]
[illegible] ... sic ita simpliciter ... [illegible] a quo [illegible]
... terra adusta mare ... salsum ... [illegible]
[illegible] et in aliis adustis ita salsedo [illegible] commixtionem terrestris ... [illegible]
... salsum ... intellige terram adustam ... [illegible]
[illegible] ... [illegible] ... [illegible]
quale ... [illegible] ... et ita [illegible] exalacionem ... terra
terra ... qualis ... terra adusta ... ex terra [illegible] ascendit multa ... multa
exalatio calida et secca ... vaporosa ... humida ... ex
alacionem siccam ... [illegible] ... exalacio
... exalacio vaporosa ... congregata sunt ... nubes
... iterum [illegible] vapores aqua ... exalacionis
calide et secce ... exalacio ... pluvie descendentis
[illegible] ... exalacio ... iterum ... quod ordine
sicut accidit ... [illegible] ... in ordine ... [illegible]
... aquis quare salsedo ... in aqua ... [illegible] est
[illegible] aqua dicuntur ... salsum ex terra adusta ...
intellige ... terra ... mare ... fuit adusta ...
... sit salsum ... terra in ... mare sit adusta ... sal
sit [illegible] ... [illegible] ... in [illegible] ... [illegible]
... [illegible] adusta ... terra in ... mare sit ad
usta ... salsas ... [illegible] ... calor est
... in lapillos ... [illegible] ... mare sit salsum
ex ... exalacionem ... [illegible] ... adusta
... salsedo ... in ... [illegible] ... adusta ... [illegible]
... salsum sit salsum ... [illegible]
... in [illegible] ... salsum sit ... aqua qualis ... terra adusta
... ex igne ... [illegible] ... exalacio calida et secca ...
... mare fiat salsum ... exalacio calida et secca ...
aqua ... [illegible] ... [illegible]
terra ... exalacio secca ... vapor ... elevata ... [illegible] cum
vapor ... vapor ... in nubes ... aqua ... secce ...
nubes ... [illegible] ... exalacionis calide et secce ...
[illegible] ... pluviali ... exalacio ... adusta ... [illegible]

[illegible] de sal[sedine] ... maris

tunc ipsa cadens ad aquam maris redit [illegible] salsum [illegible] eo quod continue [illegible] probat
tale exemplum elevatur et grossior [illegible] et plus adurit [illegible] hic continue [illegible] fit [illegible]
ordine [illegible] eo quod [illegible] exalationis non sufficeret [illegible] aquam maris salsam
Item advertendum [illegible] quod [illegible] fiat [illegible] ordine salis sicut [illegible] salsam [illegible]
[illegible] ordine [illegible] dimittit quod licet [illegible] insensibilis fit ordo [illegible] contingit ista sensibiliter
[illegible] ordo [illegible] superius [illegible] eo quod sepe densificatur [illegible] ordo [illegible] adiungunt [illegible] sensibiliter
in anno [illegible] sunt [illegible] tempus et estas [illegible] est [illegible]
[illegible] calidi [illegible] et [illegible] plus [illegible] Item notandum quod [illegible]
magis [illegible] debet [illegible] fiat salsum [illegible] quod [illegible] fit vapor [illegible]
[illegible] frigidus et humidus [illegible] elevatur [illegible] maris et eo [illegible] exalatio [illegible] et sicca que
elevatur [illegible] humido maris [illegible] solis et stellarum [illegible] causa [illegible] effectus [illegible]
et quia vapor aqueus [illegible] vapor [illegible] eo elevato in aere [illegible]
vapor [illegible] diffusus in aqua maris [illegible] aqua [illegible] appellatur [illegible]
[illegible] compulsa [illegible] antiperistasim [illegible] circa [illegible] solis [illegible]
[illegible] exalat aquam [illegible] sal [illegible] coagulatur a calido et sicco [illegible]
[illegible] liquescit a frigido et humido [illegible]
[illegible] calor [illegible] quod [illegible] Item [illegible] quod [illegible]
[illegible] sapor [illegible] solis [illegible] aque [illegible] excessive et tunc [illegible]
[illegible] cinis [illegible] fit magnus sapor amarissimus [illegible]
Et propter hoc australes aque [illegible] et pluviales [illegible]
et magne [illegible] estuosissimus [illegible] ventus [illegible] flat a locis siccis et
calidis [illegible] cum paucis vaporibus [illegible] et calidus [illegible]
[illegible] flat [illegible] frigidus [illegible]
[illegible] multas exalationes siccas [illegible] locis calidis est
[illegible] velut a frigidis locis vaporosus [illegible] frigidus [illegible] eo
[illegible] aut aquosus [illegible]
[illegible] libiam [illegible] aliter [illegible] lata aqua
in duas partes [illegible] ponit duo signa [illegible] ponit aliud signum [illegible] Et dividitur
[illegible] in duas [illegible] ponit [illegible] signum [illegible] auster [illegible] est calidus [illegible]
[illegible] Et antiquus [illegible] aque australes [illegible] flante
a vento australi [illegible] plus [illegible] grossa [illegible] aqua [illegible] flante [illegible] antiquis
[illegible] declarando [illegible] aquis australibus [illegible] ventus australis
calidissimus [illegible] flatu [illegible] ventus flat a locis calidis et siccis [illegible]
[illegible] cum paucis vaporibus humidis [illegible] calidus [illegible]
[illegible] locis aquosis [illegible] flat auster [illegible] calidus et siccus [illegible]
[illegible] ventus [illegible] calidus [illegible] frigidus [illegible]
exalationes siccas et calidas [illegible] locis [illegible] calidis [illegible] ventus [illegible]
[illegible] vaporosus [illegible] a locis frigidis [illegible] ventus [illegible]
[illegible] nubes [illegible] apud nos [illegible]
[illegible] libiam [illegible] flat [illegible] auster est
[illegible] nota [illegible] salsum [illegible]
[illegible] aqua pluvialis [illegible] exalatio sicca [illegible] grossa et adusta
[illegible] salsa [illegible] duplici aqua pluviali
[illegible] aqua pluviali [illegible] cadit [illegible] flante vento australi [illegible] Et [illegible] aqua [illegible]
[illegible] antiquis [illegible] multa [illegible] multum [illegible] eo quod multe
[illegible] exalationes [illegible] adusta [illegible] est [illegible] et tunc [illegible] aqua cadens [illegible]
[illegible] exalationes [illegible] multum [illegible] salsum [illegible]

[illegible] hec q; Item nota q; phus declarat p[ro]p[ter] q[uo]d [illegible] aqua austra[lis] in austro
[illegible] ventus q[ui] mittit flare a meridie a loc[is] calidis [et] siccis [et] valde calidus q[uia]
flatu suo generat paucos vapores humidos [et] subtiles sed generat multu[m]
[illegible] ea est. q[uia] [illegible] in [illegible] [et] ita [illegible] plus adusta erit [et] salse.
Item nota q; phus [illegible] collit [illegible] quo ad [illegible] austri flat
a polo antartico [illegible] vos [illegible] ita [illegible] loca [illegible] loca valde [illegible] austr[us] flat
a loc[is] frigidis [illegible] calidus [illegible] phus q[uo]d licet [illegible] ad [illegible]
[illegible] flatu suo a loc[is] frigidis [et] [illegible] calidis [illegible] p[er]venit [illegible]
[illegible] ventus [illegible] ipse erit calid[us] [illegible] p[er]transit [illegible] q[ui] flat
[illegible] regiones calidas [et] [illegible] sic [illegible] illis regionibus multu[m] de [illegible]
calida [et] sicca [illegible] ipse erit calid[us]. Item nota q; ventus borealis q[ui]
mittit flare a polo artico nob[is] [illegible] [illegible] in [illegible] flat
a loc[is] frigidis [illegible] valde frigidus [et] generat multos vapores [illegible] [et] humidos
[illegible] dat [illegible] [illegible] ventus australis [illegible] generat [illegible]
[illegible] [et] adusta. Item nota q; iste ventus borealis apud nos erit [illegible]
[illegible] nos [illegible] polo artico [illegible] ventus mittit [illegible] flat
[illegible] a nob[is] [illegible] nubes [illegible] [illegible] in loc[is] [illegible] nob[is] [illegible] valde
aquosus [illegible] multu[m] de pluvia. Item nota p[ro]pter q[uo]d ventus auster
erit [illegible] in loc[is] [illegible] [illegible] q[uo]d [illegible] mittit flare [illegible]
nubes ad loca [illegible] [illegible] mitt[it] [illegible] Egipti [illegible]
[illegible] ethiopiam [illegible] ad attlantic[um] mare [illegible] phus q[uia]
[illegible] aqua [illegible] multu[m] [illegible] ad [illegible]
Et autumno late aque [illegible] est corruptissima p[ro]pinq[ui]or [illegible]
in quibuscumq[ue] est talis [illegible] multitudo tendunt citissime decursu
[illegible] phus declarat [illegible] de aqua autumnali [illegible] aque in
autumno [illegible] multu[m] de [illegible] [illegible] corruptissima [illegible]
[illegible] tendit valde [illegible]
[illegible] aque pluviales [illegible] in autumno cadunt in autumno
[illegible] grossiores [illegible] multu[m] de [illegible] [illegible] [illegible]
[illegible] eadem [illegible] tendunt valde cito [illegible] multu[m] [illegible]
[illegible] corruptissima [illegible]
Et calidum et mare p[ro]pter hoc [illegible] Omnia cum quotiens ignita
fuerint sicut cisterna calefactis in ipsis [illegible] videmus ut [illegible] [et] calcem [et]
cinerem [et] ypostasim [illegible] siccam [et] humidam [et] calidissimoru[m] [illegible]
ventris [illegible] accidit calidissimam esse ypostasim [illegible] phus [illegible]
[illegible] calid[um] [illegible] [illegible] [illegible] [illegible]
[illegible] calida [illegible] omnia q[ue] fuerint ignita [illegible]
[illegible] calidum [illegible] in calce [illegible] [illegible] in ypostasi alterata
[illegible] humida [illegible] calidissimorum [illegible] ventris accidit esse ypostasim cali-
dissimam. Item nota [illegible] in mari fit [illegible] adusta
[illegible] calid[um] [illegible] [illegible]
[illegible] aque [illegible] est p[ro]pter [illegible] adustas [et] calefactas [illegible] [illegible]
[illegible] calid[um] [illegible] [illegible]
[illegible] in aliis [illegible] [illegible] [illegible] humidis [illegible]
[illegible] in aliis [illegible] calida p[ro]pter calefactionem [illegible] [illegible] ca-
lidissima in ventribus [illegible] magis calidus aliis [illegible] fit [illegible]
[illegible] [illegible] [et] [illegible] p[ro]pter hoc cum [illegible] aqua [illegible]
[illegible] cum dulci [illegible] salsa [et] [illegible]
ta dulci [illegible] quod [illegible] est ut est dictum [illegible] phus.

[illegible] [et] salsa [illegible]

aut quare mare sit [illegible] salsum [illegible] philosophus [illegible] dicens sic [illegible] mare [illegible]
alterum et alterum [illegible] aqua [illegible] aque elevatur de mari [illegible] alia
[illegible] aqua [illegible] salsa [illegible] maris elevatur cum aqua subtiliata
et potabili [illegible] elevatur aqua salsa [illegible] dulcificata aqua salsa [illegible]
[illegible] maris [illegible] dulci aqua [illegible] quod mare [illegible] in
6ᵐ ¶ [illegible] dicit [illegible] [illegible] aqua [illegible]
mare [illegible] salsum [illegible] [illegible] calidus [illegible] advenit [illegible]
calidus [illegible] mare non sit [illegible] salsius [illegible]
[illegible] quod dicitur [illegible] adveniet [illegible] mare [illegible] calidus [illegible]
[illegible] elevatur [illegible] elevatur aqua dulcis [illegible] cum aqua
[illegible] dulcis [illegible] calidus [illegible] elevatur [illegible] aqua salsa
[illegible] sit aqua dulcis [illegible] totius maris [illegible] dulcis [illegible]
[illegible] philosophus [illegible] qualis [illegible] salsius
[illegible] elevatur plus [illegible] salsa [illegible] videat [illegible]
[illegible] plus [illegible] salsa [illegible] elevatur [illegible]

Utrum aut sit vaporans potabilis et non in mare quia vaporans
qui constituit etiam [illegible] dicamus [illegible] et alia
etiam vinum et sunt humores quidem vaporantes etiam in humidum
constituunt aqua sunt [illegible] passiones aque sunt [illegible] quod qui
[illegible] et qualecumque [illegible] sunt [illegible] elevatur [illegible] sapor
[illegible] quod in aliis [illegible] quemadmodum facit [illegible]
[illegible] aqua potabilis elevata [illegible]
dicit nos dicamus [illegible] humidum vaporans [illegible] mari sit dulce [illegible] in aqua salsam
[illegible] in aqua salsam [illegible] in aqua [illegible]
[illegible] humida [illegible] sunt
[illegible] humida [illegible] congregata [illegible] in humidum [illegible] aqua
[illegible] aqua [illegible] vapores aque [illegible] sapor [illegible]
[illegible] qualecumque sunt [illegible] aqua [illegible]
sapores in aqua [illegible] in aliis [illegible]
6ᵐ ¶ [illegible] vaporibus [illegible] [illegible] in aliis [illegible] quia
elevatur aqua potabilis et dulcis [illegible] dubitatur [illegible] aqua [illegible] vaporis
elevatur [illegible] in aqua salsa [illegible]
potabilis elevatur a mari [illegible] vapor [illegible] congregatur [illegible]
[illegible] in aqua salsa [illegible] in aqua potabili [illegible]
philosophus [illegible] in vaporibus elevatur ab aliis humidis [illegible]
[illegible] in vaporibus elevatis a mari [illegible] vapores elevati ab aliis humidis [illegible]
[illegible] congregati [illegible] aquis elevatis
[illegible] aqua [illegible] dulcis [illegible] vinum
[illegible] aliis humidis [illegible] vapor elevatur a vino [illegible] congregatur [illegible]
[illegible] in aqua [illegible] aliis humidis vaporantibus [illegible] vinum [illegible]
[illegible] [illegible]
sit [illegible] vaporibus congregatis [illegible] aqua [illegible]
[illegible] aqua [illegible] sapor [illegible]
[illegible] cum aqua [illegible] sapor
cum aqua [illegible] vapor [illegible]
[illegible] in humidum [illegible] aque [illegible] vapor elevatur a vino

[illegible] 60

[illegible]

Hic aut in dictis quia mare [illegible]

semper aliquid sursum ducitur et fit potabile et dulce [illegible] in pluvias

descendit quod stare est non quia sursum ductum est ipse pondus

salsedo potabili [illegible] non deficit sicut fluvius nisi locis [illegible]

aut in ambobus [illegible] accidere similiter non [illegible] prius videant

non [illegible] mare [illegible] [illegible] moles [illegible] terra [illegible]

[illegible] quod enim sursum venit [illegible] descendit et [illegible]

[illegible]

[illegible]

aut est ex commixtione alicuius salsum. Palam non solum ex dictis

Et et si quis vas cereum fortis posuerit in mare colligatum os

taliter ut non permittat aquam intrare mare [illegible] per

parietes cereos fit potabilis aqua enim per liquationem terre [illegible]

et terrestre faciens salsedinem propter commixtionem

[illegible]

ultimo aqua salse intrat et postea residet ad mare et tunc per ipsius poros egreditur
aqua dulcis et aqua salsa relinquitur. Ab hoc [illegible] grossicie aque salse. Talis autem
grossities non advenit nisi per admixtionem alicuius terrestris adusti etc. Hoc autem
ita est quantumcumque plus enim est salsa quam potabilis et grossicior
sicut philosophus declarat [illegible] Et primo sic [illegible] manifestat quoddam experimentum
[illegible] grossicior [illegible] quantumcumque aque salse
quod aqua salsa plus est [illegible] potabilis aqua. Et [illegible]
ita grossiciei aque salse [illegible] est [illegible]
aqua salsa [illegible] terrestris [illegible] aqua salsa [illegible] et aqua potabilis
[illegible] ut naues [illegible] pondere [illegible] in fluuiis [illegible]
submerguntur [illegible] in mari autem mediocriter [illegible] nauigabiles [illegible]
[illegible] in fluuiis [illegible] ignorantes [illegible]
[illegible] sicut philosophus [illegible] quod [illegible] per ea [illegible]
Si autem [illegible] grossities aquarum [illegible] ut naues [illegible] fluuiis [illegible]
ab [illegible] in mari [illegible] mediocriter et nauigabiles [illegible]
[illegible] naues [illegible] fluuiis [illegible]
[illegible] aqua grossa plus [illegible] quam aqua dulcis [illegible]
ista est [illegible] sicut philosophus declarat [illegible] aqua salsa [illegible] grossior quam aqua
dulcis [illegible] aqua salsa [illegible] grossicie [illegible] naues [illegible]
[illegible] mediocriter [illegible] aqua salsa [illegible] mari [illegible] naues
[illegible] pondere [illegible] fluuiis [illegible] in aqua dulci [illegible]
[illegible] fluuiis [illegible] fluuii [illegible]
naues [illegible] mare [illegible] aqua salsa grossa etc. [illegible]
autem [illegible] grossior [illegible] moles. Si enim [illegible] aqua salsam
fecerit valde mixtas sal [illegible] supernatat oua [illegible] sunt plena [illegible]
[illegible] tantam corpulentiam [illegible] mare [illegible]
et ita salsatiuas [illegible] philosophus declarat [illegible] aliud signum [illegible]
[illegible] salsi et grossioris [illegible] est [illegible]
[illegible] aqua salsa valde mixtas sal [illegible] aqua [illegible] oua supernatant [illegible]
[illegible] oua [illegible] plena [illegible] tantam corpulentiam [illegible]
[illegible] et salsatiuas [illegible] aliud [illegible] grossi
aqua salse [illegible] sal [illegible] valde [illegible] salsam [illegible]
oua plena [illegible] aque [illegible] aque dulci [illegible]
[illegible] grossiciem aqua salse [illegible] salsedine
[illegible] grossa et corpulenta [illegible]
[illegible] illi [illegible] et salsatiuas [illegible] aque [illegible]
[illegible] salse vel non [illegible] oua plena [illegible] aquas [illegible]
[illegible] salsas [illegible] non [illegible] aquas [illegible] salsas [illegible]
Si autem est sicut fabulantur quidam in palestina talem stagnum in quod
si quis miserit colligatum hominem aut iumentale supernatare et
non submergi in aquam. Testimonium utique erit ad dicta. Dicunt enim amarum
sic esse stagnum et salsum ut nec pisces innasci. Vestimenta
etiam signata [illegible] salsedine [illegible] aquam [illegible] terrestre est [illegible]
[illegible] sicut philosophus declarat [illegible] signum [illegible] applicat
[illegible] Sit autem [illegible] Si est ita [illegible] fabulantur [illegible]

Palestina [illegible] regione [illegible] stagnum [illegible] si quis dimiserit [illegible] ligatum
[illegible] et pedibus [illegible] [illegible] [illegible] [illegible] a [illegible] stagni
[illegible] [illegible] [illegible] Et si [illegible] ita [illegible]
[illegible] [illegible] stagni [illegible] ita amaras et salsum [illegible]
[illegible] [illegible] [illegible] [illegible] si quis [illegible] [illegible]
vestimenta [illegible] vestimenta [illegible] perdida [illegible] Subdit [illegible]
[illegible] Si [illegible] [illegible]
[illegible] [illegible] aque [illegible] est.
[illegible] Palestina [illegible] [illegible] Palestina [illegible]
[illegible]
[illegible] plaga [illegible] stagnum [illegible]
Item nota [illegible] stagnum [illegible]
[illegible]
[illegible] stagni [illegible] Item nota [illegible] stagnum [illegible] ita amaras [illegible]
[illegible] vestimenta [illegible]
Item nota [illegible] mare mortuum [illegible]
[illegible] Item
nota [illegible] [illegible]
[illegible] In cabina [illegible] fons quidem est [illegible] effluit [illegible]
in flumen [illegible] dulce [illegible] Elegerit [illegible] ut [illegible]
[illegible] data [illegible] venit [illegible] ducens [illegible]
bonos sales [illegible] [illegible] fonte [illegible] aque [illegible]
[illegible] aqua [illegible] Cum [illegible] evaporaverit
[illegible] sales [illegible] subtiles [illegible]
[illegible] [illegible] et [illegible] colore
[illegible] albi [illegible] dicens [illegible]
[illegible] quod fons aque [illegible] salse [illegible] fons effluens [illegible]
[illegible] sales [illegible]
[illegible] sales [illegible] fonte [illegible] data [illegible]
[illegible] aque [illegible]
[illegible] sales [illegible] sales [illegible] [illegible]
[illegible] albi [illegible] colore
Item nota [illegible] est
[illegible] [illegible] dulce [illegible]
[illegible] fluminis [illegible] venit
[illegible] Item nota [illegible] [illegible]
bonos [illegible] sales [illegible]
[illegible] sal [illegible]
Item nota [illegible] sales [illegible] sal [illegible] duos
[illegible] aqua [illegible] sale [illegible]
[illegible] Item nota [illegible]

[Marginal notes, right: lege; No; mare mortuum; Ith; illi mandabat circa illum fontem; illi [illegible]; [illegible]; eligendi; Nota; No; lege]

[Marginal notes, left: ut alij; [illegible]]

sal

subtilitates volunt sicut sal. Tunc decoquitur aliqua pars illius aque fontalis
et post decoctionem remanet ad oculum et tunc evaporat humidum subtile cum calido,
et ad partes plures [illegible] sal. Iterum quando [illegible] iste sal [illegible] grossum et aqueum
et subtile et diffusum in partibus [illegible] cum alio sale [illegible]
et reddit alio minus salsum [illegible] calidum in ipso salsum reddit valde [illegible]
Est iste sal [illegible] albi coloris sicut aliud sal [illegible]. Tale autem
altius fit et in Arabia. Est enim quidam locus in quo nascuntur cala-
mi et scirpus et de istis comburunt et cineres dimittentes decoquunt
in aqua. Cum autem dimiserit aliquam partem aque fiet infrigidata sal
fit multitudo [illegible] sicut [illegible] [illegible] ad declarandum dictus sal [illegible] fit
alterius generis [illegible] in Arabia [illegible] quidam locus in quo nascuntur calami et
cirpus et [illegible] subtilitates illius [illegible] comburunt de istis calamis et cirpis
et [illegible] cineres in aqua decoquunt cum aqua [illegible] cum iste [illegible]
[illegible] calamis [illegible] et aqua dimisit aliqua pars aque. Tunc sic infrigidata
fit multitudo salis. Et [illegible] est [illegible] quod Arabia [illegible] regio
et [illegible] Arabia [illegible] sal. Et [illegible] regio [illegible]
[illegible] in [illegible] salibus multa et [illegible] ibi nascuntur [illegible]
et [illegible] [illegible] [illegible] [illegible] regiones [illegible] quidam locus in quo
nascuntur calami et cirpi [illegible] et de istis [illegible] [illegible] aquas
glutinose et cineres [illegible] post [illegible] in aqua [illegible]
et postea [illegible] decoctionem [illegible] [illegible] subtili [illegible] sit quod ibi
pars [illegible] de aqua [illegible] ad [illegible] et [illegible] infrigidata
fit sal. Et [illegible] autem sunt salsa [illegible] fluviorum [illegible]
plurima [illegible] [illegible] quod putant [illegible] [illegible] [illegible] ignis [illegible]
[illegible] autem penetrat [illegible] adhuc manet [illegible] velut talis
et tamen [illegible] affirmat [illegible] [illegible] fluviorum et fetida [illegible]
in [illegible] [illegible] affirmat [illegible] sapore in aquis [illegible]
ea [illegible] [illegible] autem [illegible] aqua [illegible] [illegible]
[illegible] fluviorum [illegible] salsa [illegible] putant [illegible] calida [illegible]
[illegible] fluvii et fontes [illegible] [illegible] penetrat
[illegible] calor et [illegible] velut calor et [illegible]
[illegible] est [illegible] quod [illegible] aqua [illegible] calida [illegible]
[illegible] aqua [illegible] fluvii [illegible] aqua
[illegible] sulphurea et [illegible] fluvii [illegible] calidi [illegible]
[illegible] [illegible] calida [illegible] [illegible]
[illegible] sit calida [illegible] calor et [illegible]
autem in multis locis et fontes et [illegible] fluviorum [illegible] Sunt
sapores [illegible] [illegible] ponderum [illegible] que [illegible]
ignis [illegible] [illegible] magis et minus [illegible]
formas et colores saporum [illegible] [illegible] et calor et aliorum [illegible]
fit plena [illegible]. [illegible] penetrantes aque [illegible] dulces
[illegible] et [illegible] acetose sunt [illegible] que in Siciliana
[illegible] ibi enim [illegible] fit et [illegible] aceto [illegible]
[illegible]. Est autem et [illegible] quidam fons aque [illegible]
[illegible] amara. [illegible] autem [illegible] ab ipso [illegible]
in [illegible] amara [illegible]. Differentie autem [illegible]

[illegible]

qualis sapores et qualibus sunt commixtionibus. Deinde cum dicit de ipsis seorsum in aliis [illegible] hic philosophus ostendit commixtionem cum dicit sapores in aquis dicitur in multis locis sicut fontes et venta fluminum habentes multiformes sapores quorum causa sapores [illegible] quia aque deputate [illegible] terre fervidum aut [illegible] igneum qui generatur in ipsa et virtute stellarum. Cum terra composita sit [illegible] et multa accipit commixtione fervidis colorum et saporum. Quia terra sit plena [illegible] accidentibus [illegible] calorem et aliorum [illegible] per loca terre aque contentes [illegible] permutantur in saporibus [illegible] aque sunt accetose [illegible] quia Sicilie in Sycania [illegible] sit aqua acuta accetosa [illegible] Item [illegible] locis quod sunt aque accetose [illegible] amari [illegible] amarum [illegible] qualis sapores sunt et qualibus commixtionibus [illegible] in libro [illegible]

Quinta lectio [illegible] qui philosophus [illegible] sapores [illegible] in pluribus fluminibus et fontibus [illegible] calidos [illegible] in terra [illegible] stellarum [illegible] in colore et sapore [illegible] plena accidentibus [illegible] per loca [illegible] sapor [illegible] Item [illegible] Sicilia [illegible] insula Sycania [illegible] a Sycano rege. Deinde [illegible] a Syculo [illegible] Ytalie [illegible] philosophus [illegible] insula [illegible] aqua accetosa [illegible] ibi [illegible] accetose. Et philosophus [illegible] Ursalime [illegible] aqua acuta et accetosa sicut Ursalime [illegible] Item [illegible] accetose aque. Item [illegible] amarum [illegible] Item [illegible] philosophus [illegible] qualis sapores et qualibus commixtionibus fiant [illegible] alius sapor [illegible] sapores [illegible] in libro [illegible]

De aqua igitur et mari [illegible] causa et propter quid continue sint et quomodo permutantur [illegible] Adhuc autem quascumque passiones naturaliter ipsius accidit facere aut pati. Deinde [illegible] dictum nobis de pluribus. Hic philosophus recapitulat dicta [illegible] Deinde [illegible] nobis de aqua et mari [illegible] causa sunt [illegible] quomodo permutantur [illegible] de pluribus passionibus quascumque passiones accidit ipsius facere vel pati [illegible] Sexta lectio [illegible] mare [illegible] aqua [illegible] in [illegible] et per locum [illegible] et aquarum [illegible] aqua [illegible] aquarum [illegible] de omnibus passionibus [illegible] colibus [illegible]

De spiritibus autem dicamus [illegible] Deinde nobis iam prius dictum est quod due species exalationis ut diximus, hec quidem humida hec autem sicca. Vocatur autem hec quidem vapor, hec autem sine nomine [illegible]

Albertus [illegible] libro [illegible] de [illegible] vapor [illegible] vapor [illegible]

Absoluta [illegible] grossus et [illegible] et magis [illegible] materia venti

Involutum in vapore humida

Albertus [illegible]

In parte [illegible] appellacionibus ipsam velut fumum [illegible]
Est autem vapor humidus [illegible] siccus neque siccus [illegible] humidus [illegible]
[illegible] secundum [illegible] textus 29 in quo philosophus [illegible] de
ventis [illegible] ventorum. Et [illegible] in 3a [illegible] in [illegible] de [illegible] ventorum
in [illegible] quomodo [illegible] in 3o [illegible] de
[illegible] in 3a parte [illegible] in prima parte philosophus investigat [illegible] ventorum
in 2a parte [illegible] ventorum in 3a parte [illegible] investigatis
[illegible] laterio [illegible] 3a [illegible] exalacionibus [illegible]
[illegible] ventorum 2a [illegible] exalacionem [illegible] in duos [illegible]
[illegible] 2a [illegible] lato [illegible] sole [illegible]
[illegible] exalacio humida et exalacio sicca [illegible] exalacio humida [illegible] vapor [illegible] exalacio
sicca [illegible] exalacionum sicca [illegible]
[illegible] appellacionem [illegible] exalacionum sicce [illegible]
[illegible] humidus [illegible] siccus [illegible] humido [illegible]
[illegible] ventorum [illegible] principium est [illegible] philosophus [illegible]
[illegible] exalacio humida [illegible] sicca [illegible] exalacio
[illegible] vapor [illegible] exalacionem sicce [illegible]
[illegible] exalacionum [illegible] exalacionum sicca [illegible] exalacionem
[illegible] exalacio [illegible]
[illegible] exalacionem sicca [illegible] exalacio sicca [illegible]
[illegible] humidum [illegible] sicca [illegible]
[illegible] sicca [illegible] humidum [illegible]
[illegible] lato [illegible] sole [illegible]
[illegible] elevate humidum [illegible] longius [illegible]
[illegible] vapor in aqua [illegible]
[illegible] aqua [illegible]
[illegible] aqua [illegible] in
[illegible] terre humidum [illegible]
calefaciens [illegible] philosophus [illegible] sole [illegible]
[illegible] sole [illegible] humidum [illegible]
[illegible] vapor [illegible] in aqua [illegible] sole
[illegible]
[illegible] in nocte [illegible] in die [illegible] nocte [illegible]
[illegible] nocte [illegible]
[illegible] in terra [illegible] ignis [illegible] multa calida
[illegible] elevat humidum terre [illegible] sol calefaciens [illegible]
[illegible]
[illegible] appropinquat [illegible]
[illegible] multum humidum elevat [illegible] terra [illegible]
[illegible] ad [illegible]
[illegible] humidum elevatum [illegible]

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in aquis et [illegible] descendens diffundit ad diversa loca terre / Et quia in
terra [illegible] solis [illegible] multum de calore [illegible] sol agit [illegible] in terram
[illegible] elevat humidum [illegible] in superficie terre / [illegible] calefaciens desiccat terram
Et [illegible] exalacio calidam et siccam elevat [illegible] ventorum
Item [illegible] plus fiat [illegible] in hyeme quam in
estate [illegible] plus [illegible] / Et [illegible]
[illegible] de nocte quam de die [illegible] de nocte [illegible]
[illegible] fiat nobis / [illegible] de die [illegible] de nocte [illegible] in quiete
Exalacio autem sicut dictum est duplici comite hac quidem va
porosa / hac fumosa / ambas necesse fieri / [illegible] et quidem
humidi plenam [illegible] / exalacio [illegible] pluvialis aque
sicut dictum est [illegible] sicca autem [illegible] et [illegible]
quod [illegible] necessario [illegible] palam / Etiam
exalacionum differe necesse [illegible] sole et [illegible] in terra caliditatem [illegible] facit
non solum posse [illegible] necesse est [illegible]
[illegible]

[illegible]

Quare autem alia utique est natura [illegible]
et non eadem [illegible] quare venti una et quare pluvie aque sicut quidam
aiunt / eundem enim aerem motum quidem ventum esse / constrictum autem
iterum aquam [illegible]

[illegible]

[illegible] ... est vent[us] ... [illegible]
[illegible] ... dicitur ... opinionem ... ventus ... [illegible]
[illegible] ... aer motus ... [illegible] ... opinio ... ventus et aqua
pluvialis ... [illegible] ... aer ... motus ... [illegible]
... opinionem ... ventus ... aer ... aqua ... [illegible]
Item ... opinio ... ventus et aqua pluvialis ... [illegible]
... aer sit ... ventus et aqua ... [illegible]
... aer motus ... ventus ... [illegible]
... ventus et aqua pluvialis ... [illegible]
... [illegible] ... de vento et aqua pluviali ... [illegible]
... [illegible]
... [illegible] ... ventus et aqua ... [illegible]
... venti et aqua pluvialis ... aer motus ... ventus ... [illegible]

... aer enim ... sicut in fumoso ...
Hoc autem fit ex hijs: vapor quidem enim humidum et frigidum,
hoc quidem enim ut humidum ... aque
frigidum ... sicut aqua non calefacta ... calidum et sicci
... quemadmodum ex symbolis eo consistit quod ... aer humidus
et calidus.

[illegible] ... aer ... a vento et aqua pluviali
... [illegible] ... aer sit ex calido et humido ...
... symboli ... vento et aqua pluviali ... vapor ... humidum et frigidum
... [illegible] ...
... vapor ... natura ... aqua non calefacta ...
... [illegible] ...
... aer ... aqua pluvialis et ventus ... [illegible]
... [illegible] ...
... venti ... aque pluvi[alis] ... [illegible]
... [illegible] ... aer ... [illegible]
... vapor seu aqua pluvialis ... [illegible]
... venti ... calida et sicca ... aer ... calidus et humidus ...
aqua pluviali ... venti ... aer ... [illegible]
... symboli ... venti ... symbola ... venti ... calidus
... pluvialis ... aer ... symbolis
aqua pluvialis et venti ... symbole ... aqua
aqua pluvialis et ventus ... [illegible]
... vapor ... aque pluvialis ... [illegible]
humidus ... vapor ... aque ... aqua est
... [illegible] ... vapor ... [illegible]
... calidus ... Item ... [illegible]
... [illegible] ...
... venti et aqua pluvialis ... [illegible]
... [illegible] ...

Et enim inconveniens si quis ... singulos ... aer iste sic
motus ... ventus ... sicut ...
fluvios consistimus ... qualitercumque ... effluentes aquas ... sicut ...

[illegible] ... aer motus ... ventus ... fluvios ... aque ... [illegible]
... qualitercumque ... ventus ... fluvios ... aque ... [illegible]
... pluvias ... [illegible]

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multi ne[illegible] est fontale [illegible] flumina sic [illegible] ventus [illegible]
[illegible] cum [illegible] magis [illegible] aer ab aliquo magno [illegible]
non habent principium [illegible] finem [illegible] ventus [illegible] aer [illegible]
[illegible] motus [illegible] aer [illegible]
[illegible] aer [illegible] motus sit ventus [illegible] a quodam
loco [illegible] ventus [illegible]
[illegible] aqua
[illegible] aqua
[illegible] a fonte [illegible] ventus [illegible] aer
[illegible] ab aliquo magno [illegible] motus [illegible]
[illegible] a quo [illegible]
[illegible] ista ventus [illegible] aer [illegible] motus
[illegible] ventus [illegible] a quo [illegible]

[illegible]

declarat [illegible] quod signa. Et dicit in 3e partes [illegible] declarat eadem [illegible]
[illegible] ita in [illegible] post ymbres [illegible] [illegible] [illegible] adhuc [illegible]
[illegible] assignat causas quarundam [illegible] causa autem [illegible]
[illegible] quod sunt ex istis exalacionibus [illegible] quia tales exalaciones sunt [illegible]
[illegible] quia quando exalacio sit magis [illegible] quia quando sit exalacio
[illegible] sunt nubes et venti [illegible] nata [illegible]
[illegible] quando exalacio humida sit [illegible] multiplicior [illegible] sicca et fumosa sit [illegible]
[illegible] sicca [illegible] accidit [illegible] multos ymbres [illegible]
regionum. Aliquando autem [illegible] partes regionum [illegible] accidit [illegible] regio [illegible]
regionis [illegible] accidit ymbres multos [illegible] in aqua parte [illegible]
regionis [illegible] siccitas [illegible] autem [illegible] accidit [illegible] parte [illegible] contra [illegible]
aquas mediis [illegible] mediocriter vel [illegible] magis sicca [illegible] una alia
parte [illegible] regionis accipit copiosa multitudine aque. [illegible] istud [illegible]
[illegible] declarat [illegible] dicit [illegible] exalacio humida [illegible] pluvie et exalacio
sicca [illegible] ventorum [illegible] quia quando eleuatur exalacio [illegible]
[illegible] multitudine [illegible] temporibus [illegible] nubes et pluvie
et [illegible] venti et tempestates [illegible] exalacio humida [illegible]
elevata [illegible] plurime et humidi [illegible] exalacio sicca [illegible]
multitudine [illegible] sicci et ventosi [illegible] exalacio [illegible]
[illegible] una pluviosus [illegible] exalacio [illegible] sicca [illegible] ventorum
Item notandum [illegible] sunt multe sicce vel multe pluvie [illegible]
[illegible] partes [illegible] in [illegible] parte regionis [illegible]
[illegible] multe pluvie [illegible] parte eiusdem regionis [illegible] pluvie
[illegible] in eo tempore multa siccitas [illegible] tempore [illegible]
[illegible] parte regionis [illegible]
ad parte [illegible] multitudo [illegible] sicce [illegible] in alia
parte plus eleuatur de exalacione humida [illegible] copiosa [illegible] in una
Causa autem [illegible] ut sunt pluvia humida [illegible] ad pluviam
[illegible] regionem quia [illegible] ad solem [illegible]
[illegible] aliquid [illegible]
Et dicit in duas partes [illegible] assignat [illegible]
[illegible] autem [illegible] regione [illegible] multitudo siccitatis vel humiditatis [illegible]
[illegible] eandem humide vel sicce [illegible] ad magnam regionem [illegible] pluvia
[illegible] partes regionis [illegible] sit [illegible] ad solem [illegible]
[illegible] vel [illegible] solis [illegible] aliquid [illegible]
vel partes regionis [illegible] ad solem [illegible]
[illegible] pluvie [illegible]
regionem [illegible] multitudo siccitatis vel humiditatis [illegible] humiditas [illegible]
[illegible] exalacio humida vel exalacio sicca [illegible]
pluvia [illegible] loca [illegible] regionis vel ad omnia loca [illegible] exalacio humida
[illegible] ad omnia loca regionis [illegible] regio sit multitudo ymbrium [illegible] pluvie
[illegible] exalacio sicca sit eleuata [illegible] regio sit [illegible] siccitas
Item notandum [illegible] exalacio sicca vel humida [illegible] ad [illegible]
regionem [illegible] partes [illegible] solis [illegible]
[illegible] solis [illegible] stellarum [illegible] tales exalaciones eleuantur [illegible]
ad diuersa loca [illegible] regionis et exalacio [illegible] Item notandum [illegible]
[illegible] partes [illegible] regionibus [illegible]
[illegible] pluvie [illegible] paludes [illegible]
[illegible] exalacionum [illegible]

Cum primo alij sunt hac quod propter sicca exalacio fumosa est a [illegible]
[illegible] aer aut vaporosa aqua [illegible] Et ipsius [illegible]
[illegible] quia [illegible] in [illegible] regionis exalacionis
puta sicca quod [illegible] fluit [illegible] quedam ad [illegible]
[illegible] in aque [illegible] locorum [illegible] a [illegible]
Alij [illegible] maxime [illegible] Et accidit [illegible]
[illegible] corpore si superior venit sicca [illegible]
[illegible] exalacionis

[illegible]

tales eo quod desuper exalat hoc est quod sit venti corpus et cum ille
segregaciones fuit et venti obtineat. Cessantibus quia segregat se
calidum et siccum et sentitur in superiori loco eo stat vapor infrigidatus
et fit aqua. Et eo in eodem tempore appellant nubes et quod constetit ad
ipsas frigiditas aque et infrigidat sicut exalacionem cessare faciunt
aque facte ventos et cessantibus ipsis fiunt propter has causas
Hic philosophus adducit 2m signum pro admanifestacione predictorum [illegible]
[illegible] adducit in quos [illegible]
declarat [illegible] adducit ac venti sit [illegible]
post pluvias in illis locis [illegible] semper pluviis et [illegible] pluvia
cessat venti [illegible] accidere propter [illegible] exalaciones [illegible]
[illegible] post [illegible] fuit [illegible] abs eo ea
[illegible] a celo [illegible] a corporibus celestibus
[illegible] emittit exalacionem [illegible] exalat [illegible] venti
[illegible] exalacionis segregacio fuit [illegible] tempore et venti obtineat
victoriam [illegible] cessantibus venti [illegible] calidum [illegible]
alacionis segregat [illegible]
vapor [illegible] et fit aqua [illegible]
[illegible] cum [illegible] nubes appellatur a ventis in eodem
loco in quo exalacio [illegible] constetit nubes ad ipsas eo
[illegible] aqua [illegible] exalacionem [illegible] et tunc aque facte
ex nubibus faciunt cessare venti et cessantibus ventis ipse aque fiunt propter hoc ex-
alaciones [illegible]
in [illegible] cessat venti [illegible] ventis [illegible]
pluvie [illegible] post pluvias fiunt venti [illegible] in quibus [illegible] pluvie
[illegible] pluvias cessare venti [illegible]
[illegible] venti et pluvie fiunt [illegible] pluvie [illegible] vapor [illegible]
venti [illegible] Item [illegible] declarat [illegible] post
pluvias fiunt venti [illegible] quia [illegible] pluvia [illegible]
[illegible] emittit [illegible] exalacionem [illegible]
[illegible] venti [illegible] post pluvias fiunt venti [illegible]
[illegible] post ventos fiunt pluvie [illegible] declaratur [illegible] exalacio [illegible]
[illegible] ventos fuit [illegible] ventos [illegible]
cessare [illegible] calidus [illegible] ventos [illegible]
[illegible] vapor [illegible] calidus exalacionem [illegible]
[illegible] vapor [illegible] in aqua [illegible] exalacionem [illegible]
[illegible] venti [illegible] Item [illegible]
[illegible] nubes [illegible] venti [illegible]
[illegible] nubes in [illegible]
exalacionem [illegible] aqua fuit [illegible] nubibus cessare venti [illegible]
[illegible] venti [illegible] cum pluvia et [illegible] cessantibus ventis fiunt
pluvie [illegible] Adhuc aut [illegible] maxime [illegible]
ab ursa et meridie [illegible] causa pluvii [illegible] boree et aust[ri]
fiunt ventorum Sol enim [illegible] loca vero supergreditur [illegible]
et ab aliis [illegible] semper [illegible]
nubes consistunt in lateralibus et fit [illegible] exalacio
[illegible] ad eorum locum aque et [illegible]
[illegible] et fit [illegible] et [illegible]
[illegible] pluvia [illegible] descendit
aqua in [illegible] locis in quibus [illegible] et aquilonibus [illegible] aut fiunt

polum arcticum · polum antarcticum

ad arcticum et meridiem. Ubi autem plurima aquarum terra suscipit, ibi
plurima necessario fiet exalacio, sicut modo ut in videbis legentibus
firmiter. Exalacio autem habet ventus esse racionabiliter. Ibi sunt
plurimi et principalissimi spiritus, videlicet [illegible] qui ab ar-
tico borealis, et qui a meridie auster. Hic probatur [illegible]
pr[illegible] ad declarandum conclusionem primo ponit unum, secundo declarat ipsum per causam illius. Sol
enim [illegible] eadem [illegible] eo magis fiendi ventorum a septentrione et a meri-
die. Et plurimi venti communiter vocatorum sunt venti boreales et venti austra-
les. Subdit declarando per causam dicens quia sol habet sola loca in circuitu. Sed ad
hec loca non et ab aliis locis sol [illegible] loca [illegible] et super loca o-
ri[illegible] nubes constituunt in locis que sunt ad latera et que sunt iuxta polum articum
vel antarticum. Et sole accedente ad aliquas istarum tropicorum, puta articum vel
antarticum, fit elevacio exalacio humida. Et recedente sole ab aliquo loco fiunt
aque et hyemps. [illegible] elevacio [illegible] [illegible] fit in loco [illegible]
[illegible] subdit [illegible] applicando ad propositum [illegible] plurima aqua [illegible] in hiis
locis in quibus et a quibus [illegible] sol [illegible] loca [illegible] que sunt ad polum articum et ad
meridiem, id est ad polum australem, ibi terra suscipit plurima aquarum, ideo necessario fiet
plurima exalacio [illegible] sicca et terrestris, [illegible] ut in videbis legentibus [illegible]
[illegible] Sed hec exalacio [illegible] ventus et [illegible] venti [illegible] ita [illegible]
[illegible] plurimi et [illegible] communiter vocatorum fiunt in hiis locis, scilicet ab aquilone et meridie.
Sed venti qui fiunt a polo artico vocantur boreales, qui autem a meridie vocantur austra-
[illegible] non [illegible] declarat [illegible] sed quia exalacio calida et sicca
est [illegible] ventorum [illegible] humida vero est [illegible] [illegible] maior et fortior
solet fieri ventorum a locis que sunt iuxta polum articum et polum antarticum, quia
boreales flumen a polo artico et australes flumen a polo antartico sunt plurimi
et fortissimi communiter vocatorum [illegible] causa [illegible] in istis locis elevantur
multe vapores et [illegible] multe exalaciones sicce elevantur [illegible] [illegible] que probatur
[illegible] terrarum causa quia sol [illegible] ista loca que sunt iuxta polos, scilicet
que recte et perpendiculariter [illegible] [illegible] [illegible] polum articum [illegible]
[illegible] [illegible] polo antartico. Sed super loca orientis et
occidentis [illegible] ista loca sunt in via solis, scilicet inter duos tro-
picos [illegible] in talibus locis que sunt iuxta polos et [illegible] duos tropicos [illegible] sunt
[illegible] quia sol [illegible] aque [illegible] [illegible] congregacionem [illegible]
[illegible] multe exalaciones humide [illegible] quia sol [illegible] a talibus locis [illegible] ad [illegible]
[illegible] exalaciones humide [illegible] elevate [illegible] frigidum [illegible] multe
aque [illegible] fit hyemps [illegible] elevantur [illegible]
[illegible] ad terram [illegible] [illegible] applicat ad propositum [illegible]
terram [illegible] plurima [illegible] aqua ita [illegible] plurima aqua fit in hiis locis [illegible]
fiunt [illegible] solis [illegible] quia sol [illegible] in circuitu, scilicet in locis que sunt iuxta septentrionem
et meridiem [illegible] plurima aqua cadit ad terram [illegible] plurima ex-
alacionum sicca et terrestris [illegible] [illegible] legentibus videbis [illegible] humida
aquarum [illegible] fit multum [illegible] [illegible] exalacio terrestris [illegible] que et exa-
lacio terrestris [illegible] venti [illegible] [illegible] plurimi ve-
ti [illegible] illi qui fiunt a polo artico vocantur boreales, qui vero [illegible]
a polo antartico vocantur australes. [illegible] [illegible]
[illegible] aquilonem vel meridiem [illegible] [illegible] [illegible]
[illegible] polum articum [illegible] polum antarticum [illegible] [illegible] distinctis
climatibus [illegible] intelligere [illegible] [illegible] aquilo et
meridies [illegible] [illegible] [illegible] [illegible] [illegible]
vento in uno climate [illegible] [illegible] [illegible] in [illegible] climatibus

quoniam aquilo et [austrinus] auster sunt frigidiores et siccioris sufflationis / quia a ... venti
Et ideo quando ... effectus ... in terra ... effectus
... [illegible] ... climati ... ratio ... oblique ... [tortuosus / lateralis]
... transeunt ... in ventum ... exalatio ... omnes ...
in centrum ... aer ... sequitur lateraliter ... per hoc ... de
motu ventorum ... 2o motu ... [illegible] ... Item de
Apostolo ... ventorum ... tortuosi / quia exalatio ... in ventum ...
tunc venti ... aer ... in centrum terre sit motus obliquus
... motus ... exalationis ... [illegible] ... Omnis motus venti
est tortuosus ... omnis motus qui sit ad latus in centrum terre est tortuosus /
sed omnis motus venti ... quia ... omnis motus
... motus ... et tortuosus ...
exalatio ... venti ... ad latus ...
... ad latus in centrum terre ... in centrum terre
... tortuose in centrum terre ... Item venti ...
... motus ... Item ...
... ventos ... movet ventos aquilonales et ... australes
... occidentales ... movet ... Item ...
in ... motum ... effectus ... effectus
... stelle ...
... plures stelle ... ventos ... ventos ...
... ventos ... sagittarius ...
... ventos ...
ventos ... movet
... ventos ...
... aquilonaria ... ventos aquilonales ...
... Item ... dubitabit utrum de
... [illegible] ...
Significat ... motu ... venti ... ventus ...
... hic ... Et ...
... utrum de dubitabit ... ventorum ... Item de
... ventorum
... ventorum
... nubes ... caligo ... nubes vel caligo ...
venti ... ventus ... venti ...
... Item ... venti ...
sit tortuosus ... ventorum ... motus ventorum
... ventorum ...
Item ... venti ...
... nubes vel caligo ... nubes vel caligo ...
... motus ... ventorum est desuper et ...

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Terrae autem est ventus multo quidem ex terra sicut exhalationis mo-
ta circa terram palam quia motus quidem principium desuper illic autem
generationis de subtus. Et vero quidem enim tendit quod ascendit in
ca[illegible] loco cum coelo quod longius a terra [illegible] et simul desubtus
quidem in terra [illegible] et omne valet magis propter [illegible]
et principium palam quia ex terra est [illegible]

[illegible]

[illegible] Est autem exhalationibus
[illegible] secundum modicum sunt [illegible] prima sunt emanante
terra palam et in operibus [illegible] aut singulis flant [illegible]
sunt [illegible] et longe valida flant. Adhuc et quae
circa arctum in hyeme tranquilla [illegible] flatu sine uno illum
[illegible] plurimi flans et lates [illegible] ca sicut [illegible]
signis. Quae quidem est venti natura et quo sit. Adhuc autem sicci-
tatis et de imbrositate et propterea tam cessat et flant post im-
bres. Et propterea boree et austri plurimi ventorum sunt. Adhuc
[illegible] adhuc autem et de latione ipsorum [illegible]

[illegible]

[illegible] in aq[ui]l[onari] [illegible] et cetera d[icitu]r [illegible] a pluvia vel humiditate. Et est dem[um]
[illegible] cum cessat venti/ et cetera [illegible] cum stat post pluvias [illegible]
[illegible] venti boreales et venti australes [illegible] plurimi d[icu]ntur [illegible] ventorum.
Adhuc [illegible] d[icitu]r latum [illegible] ventorum. [illegible] est [illegible]
[illegible] philosophus dicit quod [illegible] ventorum sit [illegible] pluviarum [illegible]
[illegible] distillatione pluviae aquarum [illegible] in [illegible] loco fuit pluvia sic et cetera
[illegible] exhalationum [illegible] sunt venti [illegible] Item [illegible] quod [illegible]
declarat philosophus [illegible] venti [illegible] pauci flant in [illegible]
a quo [illegible] flat [illegible] postea [illegible] ad loca [illegible] fuit
[illegible] valde [illegible] plurium exhalationum [illegible] collectum. Item [illegible] quod et
[illegible] declarat [illegible] signo [illegible] hyemali [illegible] polo articum [illegible]
[illegible] venti [illegible] ventorum [illegible] et [illegible] venti [illegible] ibi [illegible]
valde [illegible]. Item [illegible] philosophus [illegible] dicit quod [illegible] sit tempestas
venti et quo [illegible] venti/ et cetera [illegible] sit [illegible]
[illegible] vel [illegible] quod non [illegible]
[illegible] et cetera. Sol autem et cessare facit ventos et commovet. [illegible]
[illegible] est [illegible] in quo philosophus determinat de causa cessationis et [illegible]
[illegible] ventorum. Et [illegible] in [illegible] philosophus [illegible] causa
[illegible] ventorum [illegible] causa cessationis ventorum et [illegible]
[illegible] de causa [illegible] ventos [illegible]
cessationis et [illegible] ventorum [illegible] declarat quod sol sit causa cessationis
[illegible] sit causa [illegible] ventorum [illegible] debiles [illegible] sol [illegible] facit
[illegible] quod sol [illegible] causa [illegible] ventorum [illegible] est
[illegible] venti [illegible] causa
debiles [illegible] et [illegible] paucas [illegible] exhalationes [illegible]
amplior calido [illegible] in exhalatione [illegible] et disgregat. Adhuc
aut [illegible] fuerunt [illegible] multa [illegible]
congregata [illegible] sicut [illegible] accidit [illegible]
fuerunt [illegible] faciat [illegible] et hic philosophus [illegible]
quod sol sit causa cessationis ventorum et quod sit causa [illegible]. Et [illegible]
[illegible] quod sit causa cessationis. [illegible] quod sit causa [illegible]
[illegible] Adhuc in duos [illegible] quod sol facit cessare ventos
[illegible] quod sit [illegible] cessatio venti [illegible]
Adhuc in duos [illegible] Adhuc [illegible]
[illegible] sol [illegible] exhalationes [illegible] debiles et paucas exhalationes [illegible] amplior
[illegible] calido [illegible] in exhalatione et cetera sol disgregat [illegible] exhalationem
[illegible] Adhuc [illegible] sol [illegible]
[illegible] multa [illegible] exhalationibus [illegible]
[illegible] Item [illegible] est [illegible] quod [illegible] quod sol
[illegible] debiles et pauca [illegible] calido et [illegible]
sol [illegible] calor [illegible] disgregat [illegible] exhalationem et [illegible]
[illegible] venti [illegible] exhalatio [illegible] ad
[illegible] declarat [illegible]
[illegible]
[illegible] exhalatio [illegible] calor sol [illegible]
[illegible] exhalatio [illegible] possit [illegible]

[illegible]

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Propter has quidem causas cessare faciunt ventos et a principio fieri prohibet. Quiescere autem faciunt [illegible] aut siccitatis fieri prohibent [illegible] exhalationis, utrum magis fit tranquillitas [illegible] usque ad [illegible] et [illegible] [illegible]

[illegible] Orion [illegible]

[illegible]

Propter duas causas: aut enim propter frigus extincta exhalatione velut cum fuerit gelu forte, aut marcescente a suffocatione. Plurime autem et in intermediis temporibus, aut eo quod nondum facta sit exhalatio, aut eo quod iam perficit exhalatio, altera autem nondum advenit [illegible]

[illegible]

Inequales autem et difficiles Orion esse videtur et occidens et oriens, quia in permutatione temporis accidit occasus et ortus, estate aut hieme, et propter magnitudinem astri [illegible] fit pluribus diebus, omnium turbacionum plenus propter incertitudinem [illegible]

Nota

orion

ethesie

prodromi

Pluvime

pausa ventorum

determinat de causis generationis ventorum. Secundo [illegible] quo sol habet generare seu provocare
ventos. Tertio declarat hic de vento qui fit in ortu vel occasu. Quarto declarat hic de
hiis que fiunt post gradationem solis a tropico estivali. Quinto [illegible] Ecclipsie autem [illegible]
Orion i. [illegible] constellacio occidens et oriens videtur de [illegible] i. autumpnus et [illegible]
quo ad tempestates ventorum [illegible] quia occasus ipsius Orionis accidit in
[illegible] permutacionem temporis i. estatis ad hyemem. Et ortus eiusdem Orionis accidit
in permutacionem temporis [illegible] magnum est ipsius ortus sit [illegible]
[illegible] venti. In permutacionibus temporum enim [illegible] sunt plures [illegible]
[illegible] i. [illegible] Quod autem ista est [illegible] Orion [illegible]
[illegible] constellacio que [illegible] vestigia [illegible] oriri cum sole [illegible]
mutacionem veris ad estatem [illegible] ortus cosmicus [illegible] cum sole [illegible]
[illegible] cosmice occidit [illegible] est permutacio autumpni ad hyemem et quia in
[illegible] temporis sunt multe tempestates [illegible] in ortu Orionis et
[illegible] in eius occasu sunt multe ventorum tempestates [illegible]
Orion [illegible] vel oritur [illegible] vel [illegible] ventus valde
[illegible] et importunus. Item [illegible] et occasu
[illegible] cum sol accedit ad Orionem [illegible]
[illegible] radiacionibus sive non permittit [illegible] Orion videri [illegible]
[illegible] postea recedente sole [illegible] videri [illegible]
impeditur a sole [illegible] oritur [illegible] in permutacione estatis ad autumpnum
[illegible] sunt multi venti. Item [illegible]
ortu et occasu [illegible] Orion oritur [illegible] cum in occasu solis
[illegible] orizonte ex parte orientis [illegible] sol [illegible] in Scorpione vel
[illegible] tempestates turbat. Item [illegible] Orion [illegible] et magnas
stellas ergo cum [illegible] ventos [illegible] omnes
stelle [illegible] in Orione [illegible]
[illegible] tempestates [illegible] Orion [illegible]
[illegible] ventorum tempestates. Item [illegible] cosmicus ortus est cum signum vel
stella sub orizonte ex parte orientis [illegible] signa [illegible]
[illegible] signum [illegible] in quo sol oritur [illegible]
[illegible] cottidianus. Cronicus ortus est cum signum vel stella post solis
occasum sub orizonte ex parte orientis emergit de nocte. Eliacus ortus est cum signum vel
stella [illegible] elongatur a solis [illegible] radiis [illegible] solis
[illegible] Ethesie autem flant post [illegible]
noctem cum maiore [illegible] sol [illegible] longe et diebus quidem
flant noctibus autem cessant. [illegible] ventorum
post [illegible] solis a tropico estivali [illegible]
[illegible] causa [illegible] Et ethesie [illegible] venti flant post [illegible] solis a tropico
estivali et post ortum [illegible] stelle canis [illegible] sol [illegible]
a tropico estivali [illegible] longe [illegible]
Et cessant in noctibus. Quod autem ista est [illegible]
[illegible] venti [illegible]
autumpno [illegible] sol [illegible] a tropico estivali [illegible] a tropico [illegible]
[illegible] sit in autumpno. Post ortum [illegible] stelle que vocatur Canis [illegible]
in [illegible] dies [illegible]
[illegible] flant cum sol [illegible] a tropico estivali vel [illegible] isti venti
[illegible] flant [illegible] diebus [illegible] noctibus autem flare cessat
Causa autem quia [illegible] congelatam est [illegible] autem flat cum
[illegible] cum autem [illegible] mediocriter ita fit [illegible] et
caliditas ut congelate aque liquescat. Et [illegible] caliditate
[illegible] solis [illegible] et [illegible] nocte autem deficiunt [illegible]

De stella fulgente [illegible]
[illegible] ortus cronicus
Eliacus ortus
Ethesie [illegible]

congelata liquescentes desistunt propter siccitatem noctium congelat
autem neque congelatum neque mobile huius siccitatem. Sed eum habent
siccitatem humiditatem hoc calescunt congelat. Hic philosophus assignat cau-
sam quorumdam dictorum. Et primo assignat causam primi secundo aliorum [illegible] nocte autem [illegible]
[illegible] Sed ea primi dicit [illegible] sol [illegible] tempore estivali [illegible]
congelationem [illegible] fiat congelatio. Sed [illegible] sol [illegible] abscessit
[illegible] tropico [illegible] congelatio sit mediocris [illegible] calor [illegible] congelata liques-
cat [illegible] turbida fiat [illegible]
congelationem [illegible] calor [illegible] solis [illegible]
[illegible] venti [illegible] nocte [illegible] congelatos liquescentes de die [illegible] congelata [illegible]
nocte desistit [illegible] noctium [illegible] neque congelatum [illegible]
[illegible] siccitatem [illegible] congelat [illegible] siccitatem habent [illegible]
calescunt congelat [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
Et iterum de nocte cessat et liquescentes propter noctium [illegible]
[illegible] congelatum [illegible] congelat [illegible]
[illegible] postquam fiunt calescunt congelat [illegible] de nocte [illegible]
calescit [illegible] de nocte cessat [illegible] congelatio [illegible] cessant
venti. Dubitat autem quidam propter quid boreae quidem quos etesias flant
quos vocant etesias post estivales tropicos. Non autem postea fiunt Nothi
post hyemales. habet autem non irrationabiliter fiunt [illegible]
Leuconoti [illegible] opposito tempore non fiunt autem similiter continui [illegible]
faciunt inquirere. Hic philosophus movet [illegible] et primo [illegible]
[illegible] solvendo [illegible] reddit causam
quorumdam dictorum [illegible]
[illegible] Sed aliqui dubitant propter quid cum venti boreales qui
vocantur etesie [illegible] flant [illegible] continue fiunt post tropicos estivales et post
[illegible] venti australes non fiunt sic post hyema-
les [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

estivale / tunc sunt venti valde lenes [illegible] quando flat continue vel [illegible]
flat eo magis impetuose quia flat valde lateraliter / et lateralia flatus [illegible]
[illegible] Item notandum quod isti venti dicuntur leuconoti qui albi et sereni
et lenti [illegible] latere. Item notandum quod hic per capiti solucionem
[illegible] in [illegible] post quedam solis hyemale sunt venti au-
stri / sed post quedam estivale venti sunt boreales [illegible] et venti au-
flat valde lenis [illegible] flatus non [illegible] / Et ideo non apparet venti au-
stri ita continue et fortes sicut boreales [illegible] sed sunt ita fortes
Causa autem quia boreas quidem a loco qui sub arcto flat plenus
aqua et nive sunt multa quidem liquefacta a sole post estivales con-
versiones magis quam in ipsis flant ethesie / Sic ergo et suffocaciones
sunt. Non quia sol magis approximat ad arcticum / sed eo calefecit
ampliori tempore. Adhuc autem ipse [illegible] hic philosophus reddit causam quare decem
in solem post conversiones solsticiales [illegible] Et dicit in duos [illegible] reddi-
dit causam [illegible] Similiter autem primo dicit. Causa autem predictorum est / quia boreas flat
a loco qui est sub polo artico / qui est plena multa aqua et nive que liquefit
a sole [illegible] ethesie [illegible] tales venti boreales magis flant post conversionem solis a
tropico estivo quam in ipsis [illegible] estivalibus [illegible] suffocaciones [illegible]
[illegible] et aduste [illegible] non quia sol magis approximat ad polum articum / sed
eo calefecit tanto longiori tempore [illegible] adhuc ipse [illegible] ista est
notandum philosophus [illegible] quod venti boreales qui vocantur ethesie flant post
conversionem solis estivalem / et flant continue et sunt eciam hec valde fortes [illegible] post quam
[illegible] quia venti boreales procedunt a loco [illegible] qui est sub polo artico
in quibus [illegible] multe [illegible] aque et nives quidem a sole liquefiunt [illegible]
[illegible] evaporacionem [illegible] ventorum [illegible] quia sole [illegible]
[illegible] ad tropicum estivale tales aque et nives [illegible] liquefiunt [illegible] evaporaciones
[illegible] post conversionem solis a tropico estivali [illegible] flat venti
[illegible] polo artico [illegible] tempore [illegible] aqua [illegible]
[illegible] longiori tempore [illegible] evaporaciones [illegible]
venti sunt [illegible] Similiter autem et post hyemales conversiones
flant ornithie / etiam hii ethesie sunt debiles [illegible] minores autem
et tardiores ethesiis flant. Septuagesimo enim incipiunt flare [illegible]
longe [illegible] solem [illegible] non [illegible] autem similiter flat [illegible]
[illegible] quidem in superficie et debiles [illegible] secundum [illegible] magis
congelata ampliori indiget calidi. Propter quod intercalares isti
[illegible] flant [illegible] donec [illegible] estivalibus flaverint ethesie [illegible] quam
[illegible] magis continue [illegible] flat ventus [illegible] hic philosophus reddit
causam [illegible] et primo [illegible] secundo debilitatem [illegible]
Primo dicit [illegible] sicut venti boreales flant post conversionem solis estivalem [illegible]
[illegible] venti australes flant post conversionem solis a tropico hyemali [illegible]
et [illegible] venti sunt debiles ethesie [illegible] appellantur venti boreales debiles [illegible]
flant [illegible] tardiores ethesiis / quia [illegible] flant septuagesimo die post
conversionem solis ab hyemali tropico [illegible] ventos [illegible] validos [illegible]
[illegible] longe a loco a quo [illegible] a tropico estivali [illegible]
venti [illegible] flat continue [illegible] debiles [illegible] evaporaciones [illegible]
[illegible] evaporaciones magis congelate indiget ampliori calore

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a resolucione [illegible] quod isti venti flant intensive [illegible] pulsantes facientes / donec isti
venti hiemales flant subsolanis estivalibus / quia a loco quo sol [illegible] subsolaris
estivalibus [illegible] flat ventus cum magno impetu. Item textus iste est
vanus quia philosophus [illegible] dicit [illegible] solis / quia post [illegible] solis a tropico hyemali flant ve-
ti [illegible] ita quod [illegible] ornithie [illegible] flatus hic philosophus [illegible]
[illegible] quod post hyemales [illegible] flant ornithie venti [illegible] a quibusdam appellati [illegible]
[illegible] ornithie [illegible] et a appellatur ornithi [illegible] galli vel gal-
lina [illegible] venti appellati a quibusdam [illegible]
[illegible] debiliores [illegible] Item secundo quia philosophus [illegible] debile
istorum ventorum [illegible] quod isti venti [illegible] valde [illegible]
[illegible] ventorum [illegible]
[illegible] quia sol [illegible]
isti venti [illegible] flant septuaginta [illegible] post [illegible] hyemales [illegible]

[illegible]

auster

[illegible]

articus est superior semper nobis [illegible] totus [illegible] et ab[illegible]
tarcticus [illegible] superior [illegible] polus articus [illegible] inferior [illegible] tunc polus an[illegible]
[illegible] quatuor [illegible] in celo [illegible] [illegible] secundum [illegible] astronomos
[illegible] a polo mundi [illegible] [illegible] polus zodiaci
circulus articus et tropicus estivalis [illegible] cancri [illegible] secunda [illegible]
tropicus [illegible] et tropicus hyemalis [illegible] capricorni [illegible]
[illegible] tropicum capricorni et circulum antarticum [illegible] polo zodiaci antartico
[illegible] [illegible] circulum et polum mundi antarticum [illegible] Et eodem modo
[illegible] terre [illegible] in celo [illegible]
[illegible] circulus articus et tropicus estivalis [illegible] alia [illegible] circulus antarcticus
et tropicus hyemalis [illegible] [illegible] inhabitales
[illegible] [illegible] [illegible] tympanales [illegible] [illegible]
[illegible] [illegible] Item cum [illegible] terre [illegible] que [illegible]
[illegible] [illegible] facit duos conos [illegible] linee [illegible]
[illegible] [illegible] [illegible] in [illegible] terre [illegible]
[illegible] polum alii duo coni terre [illegible] faciunt
[illegible] [illegible] [illegible] tympanales
[illegible] tympanales [illegible] duos conos i. duos angulos [illegible] basim
[illegible] [illegible] tropico estivali [illegible] linee [illegible]
[illegible] terre [illegible] terre [illegible] alii duo anguli [illegible] terre ad
[illegible] ad polum antarticum [illegible] [illegible] terre [illegible]
[illegible] linea [illegible] a tropico [illegible] in celo artico [illegible] in tropico
antartico [illegible] tropico cancri [illegible] estivali [illegible]
[illegible] tropici cancri [illegible] in [illegible] circuli artici [illegible]
[illegible] terre [illegible] in tropico cancri et [illegible] in celo artico [illegible] [illegible]
[illegible] [illegible] anguli [illegible]
[illegible] tympanales [illegible] ad modum tympani [illegible] in celo
[illegible] terra [illegible] tympanales [illegible] et eodem modo [illegible]
[illegible] tropicum cancri et circulum articum [illegible]
terre [illegible] polum [illegible] tympanales [illegible]
[illegible] terre [illegible] polo antartico [illegible] tympanales
capricorni [illegible] in celo antartico [illegible] linea [illegible]
[illegible] anguli [illegible] duos angulos in illis [illegible]
angulum [illegible] terre [illegible] illi anguli [illegible]
[illegible] [illegible] tympani [illegible]
illi [illegible] tympanales [illegible] [illegible] [illegible]
[illegible] tympanales [illegible] angulum
[illegible] basim [illegible] angulum [illegible]
[illegible] [illegible] linee [illegible]
[illegible] [illegible] in celo artico [illegible]

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est nobis [illegible] per antecedens [illegible] circuli artici [illegible] accidit nobis
[illegible] stelle [illegible] et [illegible] semper [illegible] habitant sole [illegible]
et [illegible] versiones [illegible] ad arctum [illegible] nunc dicit
inhabitabilia [illegible] loca [illegible] subdesistat a [illegible] ad [illegible]
[illegible] sub ursa [illegible] inhabitabilia [illegible] et corona [illegible]
[illegible] videtur [illegible] super caput [illegible] nobis ad [illegible] ma-
[illegible] hic [illegible] declarat [illegible] que [illegible]
[illegible] tropicos duos [illegible]
[illegible] ad polum articum [illegible] loca
[illegible] desistat [illegible]
[illegible] loca sub ursa i. sub polo [illegible]
[illegible] corona [illegible] tropicos [illegible] corona [illegible]
ut nobis super caput [illegible] sub meridianis circulis [illegible]
[illegible] declarat [illegible]
[illegible] que versiones [illegible]
articum [illegible] que [illegible]
[illegible] duos tropicos [illegible]
[illegible] qui [illegible] polum articum [illegible]
[illegible] polo [illegible] duos [illegible]
[illegible] polum articum seu [illegible] septentrio-
[illegible] antarcticum
[illegible]
[illegible] polum articum vel [illegible] septentrionem [illegible]
[illegible] caput [illegible]
ad meridiem [illegible] loca [illegible]
[illegible] polo antartico
[illegible] loca [illegible]
[illegible] a via solis elongata [illegible]
[illegible] equinoctiali [illegible] Nota bene
[illegible]
[illegible] corona [illegible] stellarum [illegible] Nota bene
[illegible] corona [illegible]
[illegible] una stella que
[illegible] stelle
[illegible] corona [illegible] tropicos
super [illegible] nobis [illegible]
caput [illegible] nunc [illegible] dest-
[illegible] hoc [illegible]
[illegible] ad [illegible] est [illegible]
[illegible] rotunda [illegible]
[illegible] longitudine [illegible] ad latitudinem [illegible]
[illegible] inhabitabile [illegible] declarat [illegible]
[illegible] declarat [illegible]
[illegible]
[illegible] videtur
[illegible] ipso [illegible]

Signa solsticiorum et equinoctiorum [illegible] noctes equat [illegible] et [illegible] diebus.

secundum apparentiam et rem. Deinde [illegible] cum [illegible] quod terra habitabilis determinata ad latitudinem
[illegible] terminos [illegible] [illegible] comparatione [illegible] Secundum communiter etiam habitabilis [illegible] ad
longitudinem [illegible] in partibus [illegible] in [illegible] [illegible] [illegible] [illegible] secundum longitudinem
[illegible] [illegible] [illegible] secundum longitudinem [illegible] ad latitudinem [illegible] [illegible] acceptam
secundum longitudinem [illegible] [illegible] [illegible] [illegible] mare [illegible]. Sumpsit etiam [illegible]
longitudo [illegible] excedit latitudinem. [illegible] terra habitabilis [illegible] [illegible]
[illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
habitabilis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] in [illegible] terra habitabili quasi longitudo et latitudo,
[illegible] latitudo [illegible] quasi [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] terre habitabili quasi longitudo [illegible] [illegible] [illegible] latitudo [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] magis accedit ad orientem [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] longitudo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] terra habitabilis
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] longitudinem
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] secundum longitudinem [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] secundum longitudinem [illegible] [illegible]
[illegible] [illegible] [illegible] secundum longitudinem [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] secundum longitudinem acceptas. Secundum latitudinem [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] secundum longitudinem
alii [illegible] Et enim apparentia et navigationes et itinera multum
longitudo differt a latitudine. Quod enim ab Herculeis columnis
usque ad Indicam, eo quod ex Ethiopia ad Meotidem et extrema Scy-
thie loca plus est quam [illegible] ad tria secundum magnitudinem [illegible]. Secundum quod na-
vigationes [illegible] et vias [illegible] contingit accipere [illegible] [illegible]
[illegible] [illegible] ad latitudinem usque ad [illegible] [illegible] [illegible] habitata [illegible]
[illegible] [illegible] [illegible] non [illegible] habitat. [illegible] autem [illegible] [illegible] [illegible]
[illegible] Indicam et columpnas Herculeas [illegible] mare [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] habitabilem. [illegible] [illegible] [illegible] [illegible]
hoc [illegible] [illegible] [illegible] [illegible] apparet [illegible] navigationes, quod longitudo multum
differt a latitudine [illegible] spatium [illegible] columpnis Herculis usque ad Indicum mare
[illegible] plus [illegible] [illegible] [illegible] [illegible] [illegible] spacio [illegible] ab Ethiopia
[illegible] ad Meotidem paludem et ad extrema loca Scythie [illegible] [illegible] [illegible]
[illegible] latitudo [illegible] [illegible] accipere navigationes et vias [illegible] [illegible]
habitata [illegible] [illegible] ad latitudinem [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] secundum longitudinem et [illegible] [illegible] [illegible] mare [illegible] [illegible]

(Sup[er] li[bru]m ~~[illegible]~~) / q[ui] in ultimis finibus hyspanie ex p[ar]te occide[n]tis herculis
statuit colu[m]pnas [illegible] victorie [illegible] ubi [illegible] p[ar]te [illegible]
[illegible] flu[m]inis [illegible] a [illegible] mare indicu[m] ex p[ar]te
orie[n]tis [illegible] ethyopia [illegible] a calore
[illegible] solis [illegible] ex p[ar]te meridionali [illegible] solis
[illegible] Syria [illegible] regio europe [illegible] a meotidis paludibus [illegible] septe[n]trionalis
[illegible] colu[m]pnas
herculis [illegible] mare indicu[m] [illegible] designat longit[udin]e[m] terre habitabilis [illegible] p[ro]tendi[tur]
ab oriente [illegible] spaciu[m] [illegible] ethyopia [illegible]
[illegible] paludes [illegible] lata [illegible] designat latitudinem terre habitabilis [illegible]
p[ro]tendi[tur] a meridie [illegible] septe[n]trione[m] [illegible] ta [illegible]
[illegible] navigacio[n]es [illegible] mare [illegible]
[illegible] declarat ubi deficiat [illegible] latitudine [illegible]
[illegible] latitudine [illegible] duobus [illegible] polo [illegible]
[illegible] longitudine [illegible] deficit habitacio [illegible]
loco [illegible] ex p[ar]te orie[n]tis [illegible] mare indicu[m] [illegible] occide[n]tis [illegible] colu[m]pnas
herculis [illegible] habitabiles [illegible] mare [illegible]
[illegible] aut [illegible] vere locus
quedam ad altu[m] polu[m] sicut [illegible] nos habitamus [illegible]
sup[er] nos [illegible] palam [illegible] habemus alia [illegible] ventorum
[illegible] quadra[n]te [illegible] boreas [illegible] illis ab illa [illegible] ibi
[illegible] ventis [illegible] que [illegible] habet [illegible]
boreas [illegible] que [illegible] habitacione[m] [illegible] est [illegible]
velut [illegible] boreales [illegible] boreas [illegible]
hic habitacio[n]em flat [illegible] quia habitacio ista [illegible] ad arcticu[m]
plenu[m] borre flant [illegible] et iste deficit [illegible] longe [illegible]
[illegible] lybiam mare australe quadmodu[m]
borre [illegible] aust[er] flant [illegible] ibi Euri [illegible] zephyri [illegible] 2
[illegible] flant [illegible] auster [illegible] ab alto polo flat [illegible]
palam [illegible] flat [illegible]
[illegible] venti australes [illegible] loci [illegible]
[illegible] flat a polo arctico [illegible]
[illegible] loco [illegible] ad polu[m] antarcticu[m] [illegible]
[illegible] polo [illegible] nos
[illegible] Et [illegible] ventorum
[illegible] boreas [illegible] nos
[illegible] a polo arctico [illegible] venti [illegible]
[illegible] a polo antarctico [illegible] nos [illegible]
[illegible] boreas [illegible] habitacio[n]em [illegible]
[illegible] velut [illegible] flat [illegible] flat [illegible]
iste boreas flat [illegible] habitacio[n]em [illegible] quia habitacio ista [illegible]
ad arcticu[m] [illegible] flat [illegible] habitacio[n]em [illegible]
[illegible] a polo [illegible] boreas deficit [illegible]
[illegible] borre [illegible] aust[er] flat [illegible]
[illegible] mare australe [illegible] lybiam [illegible] zephyri
[illegible] auster [illegible] venti [illegible]
ab alto polo [illegible] (Sup[er] li[bru]m [illegible] venti australes

q̄ e c̄ta nos [illegible] p̄ueniet a polo antar̄tico [illegible] vent' q̄ puēt a polo
antartico [illegible] ptingere usq ad nos [illegible] vent' q̄ [illegible]
a polo artico [illegible] ptingere usq ad nos [illegible] q̄ [illegible] polum antarticum [illegible]
[illegible] declarat [illegible] ad polum antarticum [illegible] ad [illegible]
[illegible] ad polum arcticum
[illegible] sol [illegible] loco [illegible] venti [illegible]
[illegible] loco [illegible] a polo artico [illegible] loco [illegible]
venit [illegible] a polo antartico [illegible] ad ventum [illegible]
[illegible] ptingere usq ad [illegible] venti [illegible]
antartico [illegible] ptingere usq ad [illegible] venti [illegible] a polo
[illegible] a polo artico [illegible]
[illegible] ptingere [illegible]
[illegible] a polo artico est velut apogeyos [illegible]
[illegible] q̄ [illegible] a polo artico [illegible]
[illegible] a polo [illegible]
[illegible] ptingit ad nos [illegible]
[illegible] apogeyos [illegible] apogeyi [illegible] venti [illegible]
[illegible] a polo [illegible] venti [illegible]
[illegible] a polo [illegible]
[illegible] tercia pars
[illegible] venti [illegible] aquilonar' [illegible] austro [illegible] venti [illegible] venti
[illegible] venti [illegible] venti occidentalis
[illegible] flare
[illegible] venti [illegible] ille [illegible] yemali [illegible]
Oportebit enim unicuique alium ab estivali et yemali ortu
[illegible] assignabit [illegible] ventum [illegible] solus [illegible]
[illegible] loco [illegible] vento [illegible]
Austrum [illegible] a tropico yemali
[illegible] venti [illegible] a polo antartico [illegible]
[illegible] a tropico [illegible] ptingit usq ad nos [illegible] ventum
[illegible] ab estivali [illegible] a tropico estivali [illegible] venti
[illegible] plus [illegible] venti [illegible] a tropico estivali
[illegible] venti [illegible] a tropico estivali [illegible] austrum [illegible]
[illegible] venti [illegible] a tropico yemali [illegible]
[illegible] a tropico [illegible] venti [illegible]
[illegible] a tropico [illegible] venti [illegible] a tropico
[illegible] usq ad nos [illegible] venti [illegible] a tropico estivali [illegible]
[illegible] ad [illegible] tropico yemali [illegible] plus venti

flat ex illis locis qui sunt circa tropicum estivalem et isti perveniunt usque ad nos et ad
ad alias habitationes eo quod ipse existens versus aliam habitationem [illegible] in via solis
ab antipodes [illegible] Item secundo alia ratio formatur [illegible]
[illegible] Si auster veniret [illegible] flatus sunt ab hyemali tropico [illegible] ab estivali tropico [illegible]
[illegible] ab austro ad nos perveniret [illegible]
[illegible] venti [illegible] versus nos [illegible] versus aliam habitationem
[illegible] tropico estivali [illegible] venti [illegible] auster [illegible]
nobis ab illis locis qui sunt circa tropicum [illegible] declinat ad meridiem [illegible]
[illegible] bona Item secundo [illegible] venti auster [illegible]
[illegible] flatus a tropico estivali [illegible] loco [illegible]
Ille autem locus propter solis vicinitatem [illegible] super aquas [illegible] pascua
a quo propter liquefactionem faciunt exhalationes [illegible] est
locus ille et expansus maior et amplior et magis [illegible] venti
[illegible] auster boreas et pertingit magis [illegible] illuc [illegible]
[illegible] est ventorum et quos habent [illegible] est [illegible]
assignat magnitudinem flatus austri [illegible]
et epilogat [illegible] locus a quo [illegible]
suum flatum propter solis vicinitatem [illegible] super aquas [illegible]
pascua [illegible] liquefactionem faciunt exhalationes [illegible] ventos flantes [illegible]
[illegible] locus [illegible] melior et amplior
[illegible] auster [illegible] venti magis [illegible]
quam boreas et magis pertingat [illegible] illuc [illegible]
[illegible] est ventorum [illegible] admirari [illegible]
[illegible] ad [illegible] auster flat a
loco [illegible] tropicum estivalem [illegible] boreas [illegible]
[illegible] in illis locis [illegible] aque et paludes [illegible] multa
[illegible] venti possit elevari [illegible] fortes venti [illegible]
[illegible] aque [illegible]
pascua [illegible] sol propter [illegible] loca [illegible] auster
[illegible] maiora et ampliora illis locis [illegible] boreas [illegible] ad
[illegible] locorum [illegible] venti [illegible]
[illegible] boreas [illegible] loca [illegible]
[illegible] locorum [illegible] paludes [illegible]
[illegible] paludes [illegible]
[illegible] tropicum estivale [illegible]
[illegible] auster magis [illegible] boreas [illegible] magis
pertingit [illegible] polum [illegible] boreas [illegible]
[illegible] De positione autem [illegible] qui contrarii [illegible] quibus et quos
simul flare contingat et quos non [illegible] autem [illegible] qui [illegible] quos
[illegible] et adhuc de aliis passionibus quecumque contingit dicta
est in problematibus particularibus nunc dicamus [illegible] autem de [illegible]
simul [illegible] descriptionem simul considerare. Hic est capitulum [illegible]
in quo philosophus determinat de distinctione [illegible] ventorum [illegible]
[illegible] in quo [illegible]
[illegible]
et ordine [illegible] ventorum [illegible] venti [illegible] quos
ventos [illegible] flare [illegible] contingit [illegible] flare [illegible]

Epilogat

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venti uno [illegible] [illegible] (et est diversitas a aliis passionibus ventorum [illegible]
[illegible] in particularibus [illegible] in [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] ventos / ventorum [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ordine
[illegible] [illegible] venti [illegible] [illegible] [illegible] [illegible] [illegible]
ventorum [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] passionibus
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Item nota
passionibus ventorum [illegible] [illegible] [illegible] [illegible] [illegible] Item nota [illegible] ista
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] passionibus ventorum que
ventorum [illegible] [illegible] [illegible] [illegible] Item nota [illegible] [illegible] [illegible] ordine

Describitur quidem ut magis insinuabiliter habeat qui orizontis
circulus propter quod et rotundus. Oportet autem intelligere ipsius alteram decisionem
que a nobis habitatur. Est enim et illam dividere eodem modo.
[illegible] [illegible] [illegible] [illegible] [illegible] permittit quod utilia ad manifestandum puta
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] adque [illegible] [illegible] permittit
descriptionem orizontis [illegible] permittit [illegible] [illegible] [illegible] [illegible] [illegible] puncta orizontis
[illegible] Supponatur autem [illegible] Sit [illegible] in quo a [illegible] [illegible] [illegible] circulus orizontis
[illegible] [illegible] [illegible] rotundus [illegible] [illegible] [illegible] magis insinuabiliter [illegible]
[illegible] [illegible] [illegible] [illegible] descriptionem distantia [illegible] alteram partem [illegible]
[illegible] [illegible] a nobis [illegible] [illegible] parte eodem modo [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] parte celi [illegible]
a parte celi non visa [illegible] [illegible] [illegible] [illegible] Item nota [illegible] [illegible]
[illegible] [illegible] distantia in spera recta [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] polos [illegible] [illegible] potius [illegible] [illegible] [illegible] [illegible] [illegible] in spera
obliqua [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a parte non visa [illegible]
orizon in spera recta. Supponantur autem primo quidem contraria secundum locum
que plurimum distancia secundum locum sicut secundum speciem. Plurimum autem
distant secundum locum puta ad invicem que secundum diametrum. [illegible] [illegible]
mittit duas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Subdit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
distat secundum locum [illegible] Item nota [illegible] [illegible] [illegible] [illegible] [illegible] diametrum [illegible]
[illegible] [illegible] [illegible] magis distat [illegible] [illegible] [illegible] stat [illegible] [illegible] [illegible] [illegible] forma
[illegible] [illegible] secundum locum [illegible] distat [illegible] [illegible] [illegible] [illegible] [illegible]
maxime distantia secundum locum [illegible] Item nota [illegible] [illegible] stat [illegible] [illegible]
[illegible] maxime distantia [illegible] aqua [illegible] diametrum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Sit itaque in quo a occidens equinoctialis. Contrarius autem locus huic in
quo b oriens equinoctialis. Alia autem diametrus [illegible] [illegible] ad rectum in
dens [illegible] in quo [illegible] huic autem contrarius [illegible] quod in quo [illegible]
[illegible] in quo z oriens estivalis et quod ad [illegible] in quo e occidens
estivalis. Contrarius autem in quo d oriens hyemalis. A z autem ducatur
diameter ad g et a [illegible] d et ad e.

hic philosophus dividit orizontem in diversa puncta in ordine ad solem orientem et occidentem.

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Polus articus
Aparcthias: boreas
Trachias
Argestes
Zephirus
Lips
Affricus
Meses
Kekias
Apeliotes
Eurus
Fenikyas
Auster
Polus antarticus vel meridionalis

[illegible] scilicet [illegible] occidens equinoctialis
in quo .a. punctum. Et oriens
equinoctialis contra locum [illegible] scilicet [illegible]
sit in quo .b. punctum. Et alia dyameter
[illegible] secans dyametrum .a.b. ad rectos
i. orthogonaliter. Et in [illegible] via
polus articus sit in quo .c. f. Et
[illegible] in quo est
t. [illegible] vel polus antarticus
[illegible] in quo est .z. [illegible] est
oriens estivalis [illegible] aut [illegible] in quo
est [illegible] occidens estivalis [illegible]
aut in quo .d. [illegible] oriens yemalis
[illegible] in quo .g. occidens yemalis.
Et dyametri ducantur [illegible]
una a .z. ad .g. et alia a .d. ad .e.
[illegible] est [illegible]
[illegible] [illegible] ... ve
[illegible] orizonte [illegible]
[illegible] [illegible] puncta

Ista [illegible] [illegible] vocatur .a.b. oriens et occidens equinoctialis [illegible] oriens vero equinoctialis [illegible] [illegible] linea .a.b. [illegible] [illegible] est dyameter [illegible] [illegible] [illegible] [illegible] [illegible] dyameter [illegible] [illegible] dyametro .a.b. secans ad angulos rectos [illegible] [illegible] et [illegible] [illegible] polum articum [illegible] vel polum antarticum [illegible] [illegible] punctum [illegible] in oriente estivali et punctum .c. in occidente estivali [illegible] punctum .d. in oriente yemali et punctum [illegible] in occidente yemali [illegible] [illegible] dyameter [illegible] a .z. [illegible] ad .g. [illegible] a .d. [illegible] ad .e. [illegible] [illegible] [illegible] valebit ad propositum [illegible] [illegible] equinoctialis [illegible] [illegible] [illegible] equinoctium [illegible] [illegible] vel [illegible] [illegible]. Et occidens equinoctialis [illegible] sol eodem tempore occidit. Et oriens estivalis [illegible] sol [illegible] tempore estivo [illegible] [illegible] [illegible] vel [illegible] in quo. Occidens vero estivalis [illegible] sol eodem tempore occidit. Oriens autem yemalis [illegible] sol oritur in yeme [illegible] [illegible] [illegible] [illegible] [illegible] in quo. Occidens vero yemalis [illegible] eodem tempore occidit. [illegible] [illegible] plurimum distant secundum locum [illegible] secundum locum [illegible] plurimum [illegible] distat [illegible] secundum dyametrum [illegible] [illegible] autem [illegible] [illegible] secundum dyametrum sunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] venti [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ventorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ventorum [illegible] ventus [illegible] [illegible] [illegible] plurimum distant secundum locum [illegible] secundum locum [illegible] plurimum distat secundum locum [illegible] secundum dyametrum distat [illegible] [illegible] ventos [illegible] ventus [illegible] [illegible] [illegible] secundum dyametrum distantes [illegible] [illegible] [illegible] [illegible] [illegible] venti distantes secundum dyametrum [illegible] secundum locum [illegible] distat secundum locum [illegible] secundum locum. Et omnes venti distantes secundum dyametrum [illegible] [illegible] secundum locum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] secundum principalium locorum venti scilicet zephirus [illegible] [illegible] ab .a. hic autem occidens equinoctialis et Eurus [illegible] apeliotes

Flant subsolanus vulturnus et eurus ab ortu
Ortu die medio nothus est et affricus auster
Circius occasum zephirus [illegible] favonius flant
Adveniunt aquilo [illegible] boreas ab arcto

hic ab oriente equinocciali. vocatur autem apartyas ab [illegible]
hic enim versa. Contrarius autem huic auster a [illegible]
enim hic, a qua flat, et est ipse in eis in suo dyametro
[illegible] vocatur kekyas. hic ab oriente estivali. Contrarius autem
non eius ab e flat, sed qui a g lips. Iste enim ab
occidente hyemali. Contrarius autem ~~huic~~ est in suo dyametro
eius ponitur. Qui a d autem eurus. Iste enim ab oriente hyemali
flat vicinus austro. Propterea et sepe ~~euronothi~~ dicunt flare. — euro flante et nothi
Contrarius autem huic non est a quo lips. Sed qui [illegible]
vocant hii quidem argestem, hii autem olimpiam,
hii autem Sciona. Iste enim ab occidente estivali flat et in suo dyametro — vel Circius
ipso opponitur boreas. Iste quidem est qui in suo dyametro ponitur
venti et equaliter sunt contrarii.

Hic philosophus declarat ponens ventos et eorum nomina, per que magis manifestando eorum contrarietates [illegible] alie intersunt et a principalissimum [illegible] in quos [illegible] [illegible] venti [illegible] [illegible] alii autem [illegible] sed venti [illegible] sunt [illegible] locum. Et zephirus quod ab a [illegible]. Sed [illegible] occidens equinoctialis. Sed vocatur vel apartyas ab [illegible] flat [illegible] polus articus. Sed contrarius huic borea a t puncto [illegible] flat in isto loco [illegible]. Qui a meridie flat auster [illegible] in suo dyametro opponitur. Sed kekyas a z [illegible] flat in isto loco [illegible] oriens estivalis. Sed [illegible] ventus qui flat ab e [illegible]. Sed qui a g flat qui lips [illegible] iste ab occidente hyemali flat. Sed [illegible] huic [illegible] opponitur in suo dyametro. Sed qui a d flat vocatur eurus qui iste flat ab oriente vicinus austro [illegible] meridiei. Propterea et sepe flante euro venti australes dicuntur flare. Sed lips qui a g [illegible] huic. Sed qui ab e [illegible] quem illi vocant argestem, hii autem olimpiam, hii autem Scironam. Sed iste flat ab occidente estivali et boreas opponitur ipsi in suo dyametro [illegible] quia venti [illegible] in suo dyametro [illegible] ~~[illegible]~~ [illegible] descriptam [illegible] philosophus declarat ponens [illegible] et nomina ventorum quorum unus [illegible] zephirus [illegible] flat a [illegible] puncto situs in occidente equinoctiali. Et dicitur zephirus [illegible] quod [illegible] flat [illegible] flatu vivificatur. Alius vero vocatur apeliotes et [illegible] a puncto b [illegible] in oriente equinoctiali [illegible] suo loco qui distat suo dyametro a b. Et vocatur [illegible] venti [illegible] vocatur apartyas et signatur in puncto [illegible] polus articus. Et dicitur boreas eo quod flat ab [illegible] motibus. Et illi opponitur suo dyametro auster qui signatur in meridie in puncto c. Et dicitur auster ab hauriendo aquas [illegible] alius puncto [illegible] oriens estivalis qui vocatur kekyas [illegible] nos [illegible] vulturnus [illegible] alta [illegible] quo [illegible] ~~[illegible]~~ vulturnus et [illegible] flante [illegible] venti [illegible] iste [illegible] signatur in puncto e [illegible] occidente estivali [illegible] a puncto g occidentis hyemalis [illegible] enim opponitur suo dyametro et vocatur lips. Alius autem [illegible] vocatur favonius eo quod fovet [illegible] eurus in puncto d oriente hyemali [illegible] auster [illegible] quod sepe flante euro venti australes dicuntur flare [illegible] lips qui [illegible] a g. Sed [illegible] ab e [illegible] dyametro opponitur quem [illegible] vocant argeste alii olimpiam alii Scironam vel Circium. Et dicitur [illegible] eo quod [illegible] septentrionales [illegible]

Zephirus
Boreas
Kekyas
Lips
Eurus
Argestes

Alii autem sunt signa quos non sunt contrarii venti ut cum quidam ventus quem vocant treskyam iste cum medius arietis et apparthye [illegible] aliud quem vocant messay iste cum medius kekye et apparthye [illegible] diameter velit quod signa semper opposita et non contradictalite [illegible] contraria autem non sunt hii venti [illegible] necesse messay [illegible] flat cum utrique ab [illegible] in quo [illegible] cum signa diameter necesse ipsi [illegible] treskye flat cum utrique ab [illegible] hoc cum signum [illegible] diameter [illegible] non ab ipso [illegible] ad medium flat quod ventus qui venit [illegible] et locum illud [illegible] [illegible] quidam [illegible] denominati venti hii sunt [illegible] ordinati sicut medio [illegible]

[illegible]

Ascendit autem plures ventos a loco de [illegible] quam ab hys qui adiacent ea [illegible] spacium ad hunc locum et quam multo plus quam aqua [illegible] in hac [illegible] sub sole [illegible] est [illegible] quibus [illegible] in [illegible] et [illegible] a sole et [illegible] amplioris et ad plenum [illegible] [illegible] [illegible]

[illegible]

Ventorum boreas quidem aparctias principalissime et thrascias quidem argestes et boreas austri at quem ytagenos a meridie et lips appellaverunt at quem ab oriente equinoctiali et eurus fenicias at quem zephyrus at quem ytagenos et argestes notus

[illegible]

quidem boreae frigidiores eo quod ab occidente flant. Austri autem
aparctiis calidiores eo quod ab oriente flant. Determinantes igitur
frigidos et calidos et aestuosos ventos sic vocaverunt. Hic philosophus [illegible]
quia cum omnes isti venti possent dici boreales et australes [illegible]
declarat quod [illegible] calidiores eo quod [illegible] ventorum [illegible]
boreales [illegible] australes, zephyri [illegible] vento [illegible]
[illegible] frigidiores orientalibus ventis [illegible] flat ab occidente. Apeliotici
et orientales venti [illegible] calidiores sunt ventis occidentalibus [illegible]
flat ab oriente. [illegible] venti sic distinxerunt calidi et frigidi [illegible]
[illegible] omnes ventos boreales et australes. [illegible]
[illegible] flat [illegible]. Omnes [illegible] venti [illegible] ad duos [illegible]
[illegible] boreales et alii australes. [illegible] ad boreales
[illegible] frigidi [illegible] boreales [illegible] flat ab occidente. [illegible]
ad australes [illegible] flat ab oriente. Et [illegible] venti [illegible] calidi et frigidi
[illegible] omnes [illegible] ad boreales et australes. [illegible] zephyri [illegible]
venti occidentales a zephyro qui flat ab occidente equinoctiali. Apeliotes
[illegible] orientales ab apeliote vento qui flat ab oriente equinoctiali. Calidi-
ores enim sunt qui ab oriente his qui ab occidente, eo quod pluri tempore
sub sole sunt qui ab oriente. Eos vero autem ab occidente derelinquit ci-
tius et appropinquat loco tardius. Hic philosophus declarat quod [illegible]
[illegible] venti qui ab oriente flant sunt calidiores his qui
ab occidente [illegible] ille qui ab oriente venit pluri tempore sunt sub sole. [illegible] qui ab
occidente [illegible] citius derelinquuntur a sole [illegible] sol tardius appropinquat loco
eorum [illegible] venti orientales sunt cali-
di [illegible] venti occidentales [illegible] longiori tempore sub sole [illegible]
[illegible] citius derelinquuntur a sole [illegible]
sol eorum loco tardius appropinquat. [illegible]
[illegible] occidente [illegible]
[illegible] oriente [illegible]
[illegible] occidente [illegible] oriente [illegible]
[illegible] calor [illegible]
[illegible]
[illegible] calor [illegible]
[illegible]
[illegible]
[illegible]
Sic autem ordinatis ventis palam quod simul flare contrarios
quidem non possibile. Secundum dyametrum enim. Alter ergo cessabit vi-
olentior passus. Non sic autem positos adinvicem nichil prohibet,
puta [illegible]. [illegible] simul flant [illegible] ambo [illegible] ad eundem
[illegible] non ex eodem [illegible]. Hic philosophus [illegible] quos ventos [illegible]
flare [illegible]
[illegible] ventorum [illegible]
qui venti [illegible]
[illegible] venti [illegible]
[illegible] ventos simul flare [illegible] dyametro [illegible]
[illegible] cessabit. [illegible] ventos [illegible] dyametro ad

Sexto 2 3a

[illegible] ... flant, puta [illegible] kekyas [illegible] eurus [illegible] flat
[illegible] ... ad eandem partem [illegible] eodem signo vel [illegible] statu [illegible]
[illegible] ... ventos [illegible] flat [illegible]
[illegible] ... ventus [illegible] flat [illegible] impedit [illegible] venti
[illegible] ... venti [illegible] oppositi [illegible]
[illegible] ... impetus [illegible] aliud [illegible]
[illegible] ... venti [illegible] estivales [illegible] hyemales [illegible] kekyas [illegible] eurus [illegible]
[illegible] ... flat [illegible] ad eandem partem [illegible] flat
[illegible] eodem loco vel eodem statu [illegible] Secundum tempora autem contraria contrarii
maxime flant, puta circa equinoctium vernale kekyas [illegible] et universaliter qui
ultra tropicum estivalem, circa autumpnales autem lipes; circa versiones autem estivales zephyrus, circa hyemales autem eurus.

[illegible] ... venti flat in temporibus [illegible] venti [illegible] maxime
flat [illegible] puta kekyas [illegible] equinoctium vernale [illegible] contraria
[illegible] estivale [illegible] autumpnale [illegible] equinoctium [illegible] lipes [illegible] flat
[illegible] zephyrus flat circa versiones estivales [illegible] solsticium estivale [illegible]
eurus flat [illegible] hyemales [illegible] versiones [illegible] maxime in
temporibus [illegible] venti [illegible] effectus
[illegible] disponunt [illegible] qualitatibus [illegible] venti [illegible]
[illegible] quibusdam ventis [illegible] kekyas [illegible] estivales
lipes [illegible] hyemales [illegible] venti [illegible] in temporibus [illegible] kekyas
[illegible] equinoctium vernale [illegible] lipes [illegible]
autumpnale [illegible] Sed [illegible] zephyrus et eurus [illegible]
[illegible] zephyrus [illegible] occidentalis [illegible] eurus [illegible]
hyemalis [illegible] flant in temporibus [illegible] zephyrus flat [illegible] solsticium estivale [illegible] eurus
[illegible] solsticium hyemale [illegible] Incidunt autem aliis maxime et cessare
faciunt apparctias et trascias et argestes. Maxime enim
[illegible] impetum ipsorum [illegible] et fortes flant maxime isti.
Apparctias et semissimi sunt ventorum, flantes enim de prope maxime
repellentes alios ventos cessare faciunt et efflantes [illegible]
[illegible] frigidi vehementer sunt. Sunt [illegible] serini.
Et cum sint magis frigidi quam [illegible] coagulatos
[illegible] kekyas autem non serenus [illegible] in seipsum
[illegible] trahens ad seipsum ut [illegible] nubem
[illegible] ... apparctias et trascias et argestes [illegible]
incidunt [illegible] venti [illegible] cessare [illegible] impetum [illegible] maxime [illegible]
[illegible] isti maxime flant [illegible] fortes [illegible]
venti [illegible] impetus [illegible] cessare [illegible]
[illegible] quibusdam ventis [illegible] apparctias [illegible] venti [illegible]
[illegible] trascias [illegible] borales [illegible] occidentales estivales [illegible] argestes
[illegible] estivales maxime [illegible] ventis [illegible] cessare [illegible]
[illegible] impetum [illegible] flat [illegible]
[illegible] maxime [illegible] incidunt [illegible]
[illegible] ventorum [illegible]
venti [illegible] ventorum [illegible] isti flantes [illegible] maxime
maxime [illegible] ventos [illegible] cessare [illegible] flantes [illegible]

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Vel vniuersos nubes ingrossatas [illegible] [illegible] [illegible] ac [illegible] si non fuerit [illegible]
[illegible] [illegible] frigidi [illegible] [illegible] [illegible] [illegible] fuerit [illegible] frigidi [illegible] [illegible]
in [illegible] [illegible] [illegible] [illegible] ingrossatis [illegible] nubem [illegible] [illegible]
[illegible] boreas [illegible] [illegible] [illegible] [illegible] [illegible] reflectit nube [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] boreas nubem [illegible] [illegible] [illegible] est [illegible] [illegible] [illegible] [illegible]
venti [illegible] [illegible] Traskyas [illegible] argestes sunt flatus [illegible] [illegible] [illegible]
in ac [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ventos [illegible] [illegible]
[illegible] nubium [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sunt [illegible] valde
frigidi [illegible] sunt frigidi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] sunt [illegible] frigida [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] flatum [illegible] [illegible] [illegible] congrossant nube [illegible] [illegible] [illegible]
[illegible] [illegible] aere [illegible] [illegible] magis [illegible] [illegible] [illegible] [illegible] aere
[illegible] [illegible] [illegible] boreas aerem [illegible] [illegible] [illegible] [illegible] nubilosum [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a terra [illegible] [illegible]
et [illegible] [illegible] [illegible] [illegible] obviantes nubibus [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] boreas [illegible] [illegible]
[illegible] aut sunt [illegible] [illegible] situatione solis [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] ventorum [illegible] [illegible]
[illegible] [illegible] ventorum [illegible] effectibus ventorum [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] ventorum [illegible] [illegible] [illegible] effectibus [illegible] [illegible]
[illegible] [illegible] ventorum [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] situationem solis [illegible] [illegible] [illegible] ventorum [illegible] [illegible]
[illegible] ventorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
in ac [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
ventorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] situationem solis
Contrarii aut a [illegible] faciunt a [illegible] puta [illegible] [illegible] [illegible] et be
kyas [illegible] [illegible] [illegible] [illegible] et eurus [illegible] [illegible] [illegible]
ci ac argestes et eurus a principio ac [illegible] [illegible] [illegible] [illegible] ac aquo
[illegible] nubilosus ac [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] aut appeliotes et traskyas et argestes
[illegible] aut [illegible] et zephirus et eurus nubibus ac [illegible] [illegible]
bekyas [illegible] valde [illegible] aut [illegible] bekyas [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
aquilas vaporantes aerem [illegible] facit [illegible] ac loco [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ac appeliotes
traskyas et argestes [illegible] causa ac [illegible] [illegible] [illegible] [illegible] [illegible]
facit [illegible] aut [illegible] [illegible] [illegible] ac [illegible] [illegible] frigidi [illegible]
[illegible] frigidi ac fulguracio [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] coagulat [illegible] [illegible]
[illegible] [illegible] [illegible] effectibus ventorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] trephie et q venti contrarii [illegible] i(ct) [illegible] aut [illegible] tot [illegible] possunt [illegible]-
fectus contrarios [illegible] Primo dicit / Sed quia venti sunt contrarii
effectus [illegible] vel [illegible] puta [illegible] et boreas [illegible] / que [illegible]
boream [illegible] sicut [illegible] eurus quandoque [illegible] /
Sed zephirus et eurus sunt sicci / Sed eurus a principio [illegible] siccus [illegible] et aquosus /
Sed [illegible] nubilosus [illegible] nubes et magis [illegible] quia isti sunt [illegible] /
Sed aparctias [illegible] [illegible] et similiter [illegible] et [illegible]
Sed [illegible] calidus et similiter zephirus et eurus / Sed boreas [illegible] aerem
nubibus [illegible] / Sed [illegible] / Sed boreas [illegible]
[illegible] nubes [illegible] quia [illegible] / Et quia [illegible] frigidus /
[illegible] coagulat aerem [illegible] / Sed quia [illegible]
[illegible] nubes [illegible] appellatur [illegible] / Sed aparctias [illegible]
et [illegible] / Sed [illegible] vocati [illegible]
[illegible] sunt [illegible] illi [illegible] /
[illegible] / Sed fulgurat [illegible] frigidi [illegible] calidi et sicca [illegible]
[illegible] nubibus [illegible] et quando venti [illegible] sunt [illegible] puta
quia cito [illegible] nubes [illegible] quod venti [illegible]
[illegible] effectus [illegible]
[illegible] aut [illegible] / Item notandum quod [illegible]
[illegible] effectus ventorum / Et [illegible] venti [illegible] hyemalis / et
boreas [illegible] estivalis [illegible] eurus [illegible]
[illegible] in aere / Item notandum boreas [illegible] vocatur [illegible] /
[illegible] latine [illegible] sub sole [illegible] /
Sed eurus [illegible] venti [illegible] /
[illegible] magis [illegible] / Item notandum quod [illegible]
estivalis et eurus [illegible] tamen [illegible]
quod eurus [illegible]
eurus in [illegible] / Item notandum quod [illegible]
[illegible] / Item notandum [illegible] aparctias [illegible] nubes in ae-
[illegible] frigidi [illegible] vaporem in nube [illegible] /
aparctias [illegible] nubes aerem
[illegible] / Item notandum quod aparctias [illegible]
quod [illegible] estivalis et [illegible] /
[illegible] quod [illegible] valde frigidi / Sed [illegible]
et [illegible] estivalis [illegible] hyemalis [illegible]
[illegible] sub [illegible] solis [illegible] / Sed boreas [illegible]
estivalis et [illegible] hyemalis [illegible] nubes in aere / [illegible]
[illegible] boreas [illegible] boreas [illegible]
[illegible] nube [illegible] /
et [illegible] vaporem in nube et [illegible]
aerem vaporosum / Sed [illegible] solis [illegible]
[illegible] multa [illegible] vapores [illegible]
in [illegible] nube [illegible] / Item notandum quod aparctias [illegible] et
[illegible] aerem [illegible] /
Item notandum quod [illegible] venti et [illegible] sunt [illegible]
sunt valde frigidi / Et quod [illegible] calida [illegible]
[illegible] calida et sicca [illegible] in nube aquosa et grava /
Et [illegible] nubis / [illegible] nubes [illegible]
agitat [illegible] calida [illegible]
[illegible] nube [illegible] / Item notandum quod [illegible]

[illegible] isti venti [illegible] [illegible] [illegible] Et

Cecie autem sunt maxime quidem autumpno, deinde vere, et

maxime et Trascyas et Argestes. Causa autem quia Cecie

plurime sunt maxime [illegible] aliis flatibus incidunt aliis, isti autem

maxime incidunt aliis flatibus. Causa autem dicta est et [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] sunt [illegible] et a quibus

venti sunt [illegible] [illegible] autem [illegible] sunt in autumpno [illegible] sunt

in vere. [illegible] Apercias et Trascyas et Argestes [illegible] sunt in autumpno

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sunt [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] aliis flatibus [illegible] Apercias Trascyas et Argestes

[illegible] [illegible] aliis flatibus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]

De ventis quidem

igitur et de hiis que a principio generacionem ipsorum et substancia et de accidentibus

passionibus quidem et secundum unumquemque tanta nobis dicta sunt [illegible]

[illegible] [illegible] [illegible] [illegible] de ventis [illegible] [illegible] [illegible] dicta de

ventis [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] de passionibus

et [illegible] [illegible] [illegible] [illegible] ventum [illegible]

De agitacione autem et motu terre post hoc dicendum.

Causa autem huius passionis habita est [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] Et [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

de causa terre motus [illegible] opinionem [illegible] / 3° declarat causas
[illegible] terre motu [illegible] [illegible] ca. [illegible] Deinde
[illegible] [illegible] ordinis [illegible]
[illegible] agitatum terre [illegible]
[illegible] illi [illegible]
[illegible] terre motu [illegible] et causa [illegible] venit [illegible]
Racio ordinis [illegible] et causa [illegible]
[illegible] a [illegible] terre [illegible] venti [illegible] terre motus
[illegible] aut tradita [illegible] ad [illegible] motus
Anaxagoras [illegible] anaximenes [illegible] et a [illegible]
[illegible] posterius democritus abderites [illegible]
[illegible] terre motus [illegible] opinionem [illegible] et primo [illegible]
[illegible] opiniones antiquorum [illegible] quorum [illegible]
[illegible] terre motus [illegible] ad [illegible] anaxagoras [illegible] tradita
anaximenes [illegible] et
et democritus [illegible] abderites post [illegible] terre motus [illegible]
Quia vero ista est [illegible] quod terre motu
[illegible] terre motus quorum [illegible] anaxagoras et anaximenes
[illegible] ait ether
[illegible] ymbres [illegible]
[illegible] sursum [illegible]
[illegible] dextrum aut altera [illegible] in qua [illegible]
[illegible] anaxagoras [illegible] democritus [illegible] opiniones et
[illegible] democritus [illegible] anaximenes [illegible] anaximenes [illegible]
[illegible] anaxagoras [illegible]
[illegible] aer [illegible] terra [illegible]
[illegible] terre [illegible] terra [illegible]
[illegible] ymbres [illegible]
No° [illegible] Quia vero ista est [illegible]
[illegible] terra [illegible] anaxagoras [illegible]
[illegible] terre [illegible]
[illegible] terre [illegible]
[illegible] ymbres [illegible]
No° [illegible] mundi [illegible]
[illegible] mundi [illegible] terre motus [illegible] aer [illegible]
[illegible] terra [illegible] tota aer [illegible]
[illegible] terra [illegible] terre [illegible]
[illegible] terram [illegible]
[illegible] aut tamen [illegible] dicit [illegible]
[illegible] putat [illegible] ad terram [illegible]
[illegible] corpus [illegible] aut levia
et ignis [illegible] opinionem et primo

in hoc quod male depingit [illegible] et decorem / 2o in hoc quod depingit terram non
esse spheram / 3o in hoc quod depingit terram [illegible] quod improbat [illegible]
[illegible] et hoc videntes [illegible] Ad hunc autem [illegible]
[illegible] ad hanc [illegible] terram valde simpliciter [illegible]
[illegible] credere [illegible] et decorem [illegible]
[illegible] ad terram [illegible] factum est
[illegible] terram est [illegible]
[illegible]
[illegible]
[illegible] improbat [illegible] depingit [illegible] et decorem [illegible]
quo est [illegible]
[illegible]
[illegible] ad terram [illegible] apta [illegible]
[illegible] factum [illegible]
[illegible] ad
terram [illegible]
[illegible]
[illegible] ad terram [illegible] et
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] et hoc [illegible] videntes orizontem / q[illegible]
sicut nos altum semper terram nobis [illegible] / [illegible] gib-
bosa et spherica [illegible] depingit terram esse
[illegible] plane [illegible] / et nos videntes in isto lo(co)
[illegible] terram [illegible] orizonte [illegible] terra [illegible] gibbosa et spherica /
[illegible] terra quo ad [illegible] nos
[illegible] plane [illegible]
[illegible] videmus [illegible]
[illegible]
[illegible]
[illegible]
[illegible] est plana / et [illegible] sphera et gibbosa [illegible] est [illegible]
[illegible] ad videt [illegible] [illegible]
de sursum [illegible] depingit terram
[illegible]
[illegible] factum est
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] Ad hunc autem nullus reddit [illegible] terre
motus in eis [illegible] participat hac parte

Hic philosophus recitat opinionem [illegible] insufficienter dictis. Et dividitur in duas partes [illegible] Anaximenis

[illegible] recitat opinionem [illegible] et motus terre [illegible] causas in quibus fuit

terre motus [illegible] principalis in quibus fuit [illegible] terre motus

[illegible] est ista dicta opinio Anaxagore [illegible] insufficiens

[illegible] terre motus [illegible] opinio [illegible] dicit [illegible]

[illegible] opinio [illegible] in quibus fuit terre motus

[illegible] terre motus [illegible]

[illegible] movet [illegible]

[illegible] Democritus autem ait terram plenam

aqua existentem et suscipientem multam alteram pluvialem aquam ab hac

moveri; ampliori enim facta quam non posse suscipere ventres, vim in-

ferentem facere terre motum et exsiccatam trahentem in vacua loca ex reple-

tioribus [illegible] incidentem movere. Hic philosophus recitat opinionem Democriti

de terre motu [illegible] in duas partes [illegible] terre motus quos ponit

Democritus [illegible] est exsiccata [illegible] Democritus dicit terram plenam existentem

aqua et suscipientem multam aliam aquam pluvialem moveri ab hac aqua [illegible] aqua

[illegible] ventres terre [illegible]

[illegible] loca repletiora terre in loca [illegible] incidente ipsa terra [illegible]

[illegible] terram [illegible] loca [illegible]

ista est [illegible] Democriti [illegible] terre motus [illegible]

[illegible] aqua [illegible]

terre [illegible] movet [illegible] terre

[illegible] Democriti [illegible] terra [illegible] aqua

[illegible] loca [illegible] ad loca [illegible]

[illegible] terra loca [illegible] terre [illegible]

philosophus [illegible] opinionem [illegible] ponit

[illegible] in pauca opiniones [illegible]

terre motus terre. Anaximenes autem ait pluviatam terram et exsiccatam

rumpi et ab his ruptis collibus incidentibus

fieri terre motus in siccitatibus et iterum in pluviis [illegible] terra

[illegible] est exsiccata rumpi et ab aquis [illegible] humectata

decidere. Hic philosophus ponit opinionem Anaximenis [illegible] ponit

[illegible] ponit opinionem

[illegible] terram depluitam rumpi [illegible] terram exsiccatam rumpi [illegible] ab his

[illegible] terre rupte [illegible] in loca [illegible] terre vacua [illegible]

[illegible] terre motus in temporibus siccis et iterum in pluviosis temporibus quia

[illegible] terram exsiccatam rumpi [illegible] terram [illegible]

motus [illegible] Anaximenes dicit [illegible]

[illegible] in loca profunda terre [illegible] ruptura terre [illegible] terre

[illegible] exsiccata [illegible] hanc rupturam [illegible] terra

[illegible] terra [illegible]

terre [illegible] movet [illegible] partes [illegible] terre motus

[illegible] sit in [illegible] fieri [illegible] plurimos [illegible] dicas [illegible]

Oportebat autem hoc accidere subversam multis apparere terram [illegible]

[illegible] terre [illegible] opinionem [illegible] ut [illegible]

[illegible] accidere [illegible] apparere terram

apparere multis [illegible]

[illegible] ista opinio [illegible] terra apparet [illegible] multis

[illegible]

[illegible] Dicitur autem [illegible]

causam eius quod locum saepe fit hoc passio nullo [illegible]

[illegible] quod oportebat [illegible] vero [illegible]

[illegible] terre motus fit saepe [illegible] quod loca [illegible]

[illegible] loca [illegible]

[illegible] ista [illegible] terre motus

in quibus [illegible] ab [illegible]

[illegible] terre motus fit in aliquo loco [illegible]

[illegible] opinionem

[illegible] terre motus fit [illegible] Omnino

autem sit consummatis [illegible] semper terre motus fieri et

tandem cessare aquam [illegible] terram [illegible] naturam

[illegible] hoc [illegible] palam [illegible] tamen

[illegible] continuatis [illegible]

[illegible] terra [illegible] terram cessare [illegible] terra [illegible]

[illegible]

[illegible] terre motus [illegible] ista [illegible] opinionis

[illegible] terre motus [illegible] cessaret

motus terre [illegible]

[illegible] terre motus fit [illegible] loca

terre [illegible] loca [illegible]

[illegible] ita [illegible]

[illegible] terre [illegible] terre [illegible]

[illegible] est [illegible] vel [illegible]

[illegible] terre motus est [illegible] Sed cum

manifestum est ventum et ab humido et sicco fieri exalationem sicut

diximus in prioribus necesse hiis [illegible] fieri motus terre [illegible]

terra [illegible] propter imbres [illegible] humiditatem

[illegible] et a sole et ab eo qui in igne calefacta [illegible]

[illegible] autem [illegible] et [illegible] aquam [illegible] omnis

aquam autem [illegible] omnis [illegible] partitur. Capitulum [illegible] in quo

[illegible] terre motus [illegible] opinionem [illegible]

[illegible]

[illegible] terre motus [illegible]

[illegible] aqua [illegible]

[illegible] terre [illegible] motus

[illegible] exalationem ab humido [illegible]

[illegible] exalationem a sicco [illegible]

[illegible] exalationibus [illegible] motus terre [illegible] terra [illegible]

terra et de vento gignitur. Illud quod est maxime subtile est maxime penetrativum sed quod natum est maxime penetrare plus est mobile ad maximam distantiam et velocissime. Ex quo si non resistit. Sed quod est mobile ad maximam distantiam et velocissime est maxime motivum, sed maxime motivum maximam facit vehementiam et impetum in motu suo sed id quod est vehementissimi et impetuosissimi motus maxime percutit et vim infert, quia percussio et motus est 3o physicorum [illegible] producitur [illegible] loco a [illegible] modo spiritus seu exhalatio calida et sicca est maxime subtilis ergo maxime penetrativa ultra quod mobilis ad maximam distantiam et velocissimi motus ultra quod maxime motivum et per consequens spiritus est maxime percussivus et maximam vim inferens [illegible] terra [illegible]

[illegible]

Si utique hoc impossibile, aliud hic quod post hoc considerandum utrum sit tale quale maxime motivum est corporum. Necesse enim quod ad plurimum natum est pervenire et vehementissimum tale esse; tale autem ex necessitate quod citissime fertur: percutit enim maxime propter velocitatem. Quod plurimum autem natum est pertransire, tale autem quod subtilissimum. Quare siquidem spiritus talis natura est, maxime corporum spiritus motivus. Etenim ignis cum ad spiritum fit flamma et fertur celeriter.

Si utique impossibile hoc [illegible]

[illegible]

[illegible] utique erit sed spiritus motus cum intus effluxerit quam extra exhalatio [illegible]

[illegible]

Propter quod fiunt tranquillitate plurimi et maximi terre motuum. Continua enim existens exhalatio sequitur ut in pluribus impetum spiritus. Quare aut intus simul aut extra fertur omnis. [illegible]

[illegible]

Nichil vero inconveniens videmus enim aliquando plures flare simul et spiritu existente [illegible] ventos quorum cum in terram [illegible] alter erit spiritu existente terre motus. Minores autem ad magnitudinem fiunt. Propter quod divisum esse principium et causam [illegible]

[illegible]

Nocte autem plures et maiores fiunt terre motuum. Eorum autem qui de die circa meridiem tranquillissimum enim est ut in pluribus diei meridies. Sol enim cum maxime obtinuerit concludit exhalationem

in terram obtinet aut maxime terra in ea existente. Noctes autem diebus
tranquilliores propter absentiam solis [illegible] intus fit in flatus
sit refusus in contrarium eius quod est diffusionis et ad aliquid
maxime. Tunc enim et fluxus nati sunt incipere. Si igitur initium
obtinuit permutatum principium corporis sicut euripus, propter multitudinem
terrae facit terrae motum [illegible]

[illegible]

talia sunt fortissimi terrae motuum [illegible] maris fluxui [illegible] a Iscio Pon-
grosa et sub antrosa propter quod circa Hellespontum et circa Achaiam et
Siciliam et Euboeam et circa haec loca videtur enim penetrare sub terra
mare propter quod et calidas [illegible] circa [illegible] sunt. Circa dicta autem
loca terrae motus fiunt maxime propter angustias. Ventus enim factus vehemens
et propter multitudinem maris allatus repellitur iterum in terram quod natum erat
effluere ex terra. Regiones autem quaecumque habent quae sub terra loca
multa spongiosa existentes concipiunt magis [illegible]

[illegible]

Causam dicit quod et loca dicta maxime fiunt terre motus propter angustias locorum ad que
expellitur exalacionis [illegible] fluxus et fluxus reflexivus in terra et circa terram [illegible] exit
natura exalacionis contra terram propter multi [illegible] maris agitati expellitur in terram [illegible] fit
terre motus [illegible] loca que sunt loca inferiora cavernosa [illegible]
multi [illegible] magis [illegible] Quod secundum ista est textus [illegible]
a loco fit terre motus [illegible] et loca [illegible]
aquosa sunt fortes terre motus [illegible] loca [illegible] sunt
multi terre motus [illegible] propter multam exalacionem inclusam in terris locis et propter
terra Ellesponti Achaiam et Siciliam et Euboye sunt multi terre motus [illegible]
et loca [illegible] Item [illegible] in libro [illegible]
[illegible] ab Ellesponto usque ad Gades in [illegible] Et [illegible]
[illegible] totus locus [illegible] Ellesponti vel Ellespontus [illegible] Item [illegible] Achaia est
regio Europe [illegible] urbe [illegible] appellata [illegible]
pene tota insula [illegible] a septentrionali parte a Macedonie [illegible]
septentrionali [illegible] ab oriente [illegible] mari [illegible] Creticum
[illegible] ab occasu [illegible] insulas [illegible] a sola septentrionali parte Mace-
donie [illegible] Sicilia [illegible] a [illegible] Sicania [illegible] et
[illegible] ventus [illegible] Achaia [illegible]
[illegible] et Euboye [illegible] insula [illegible] Hyspanie
et [illegible] textus [illegible]
[illegible] Item textus [illegible] et [illegible]
[illegible] terre motus [illegible] exalacio [illegible]
[illegible] exalacio [illegible]
[illegible] et [illegible]
[illegible] exalacionem [illegible]
[illegible] Item textus [illegible]
[illegible] terre motus [illegible]
[illegible] exalacio [illegible]
[illegible] et antumpno maxime et in plu-
[illegible] terre motus [illegible] Tempora autem [illegible] maxime
[illegible] estas [illegible] et tempus [illegible] estas
[illegible] valde [illegible]
valde [illegible] est et in [illegible] quidem [illegible] aer [illegible]
[illegible] amplior exalacio [illegible] humida [illegible]
plurimos autem ampliorem [illegible] exalacionem [illegible]
[illegible] locis et [illegible] locum [illegible]
[illegible] aqua [illegible] incipit [illegible]
[illegible] loco [illegible] fluxus [illegible] ventus [illegible] offendens
[illegible] signum [illegible] terre motus [illegible]
[illegible] terre motus maxime fiunt [illegible] et antumpno et [illegible] plurimos [illegible]
[illegible] exalacionis [illegible] maxime [illegible]
[illegible] exalacionis [illegible] estas [illegible] tempus [illegible]
[illegible] estas [illegible]
[illegible]
[illegible] exalacio [illegible] amplior [illegible] humida [illegible] plurimis [illegible]
[illegible] exalacionem [illegible] amplior [illegible] exalacionis [illegible]
[illegible] locis [illegible] locum [illegible]
[illegible] exalacio incipit [illegible]
[illegible] exalacio [illegible] exalacio [illegible]
[illegible] est textus [illegible] exalacio fit [illegible]
terre motus [illegible] terre motus [illegible] et [illegible] temporibus

plurimos et celer in temporibus [illegible] [illegible] calidos. Et hic [illegible] in illis temporibus [illegible] sub terra [illegible] movere. Item [illegible] [illegible] [illegible] de terra [illegible] in autumpno [illegible] in illis temporibus [illegible] [illegible] exalationes [illegible] [illegible] [illegible] Item [illegible] [illegible] declarat [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

no [illegible] Item [illegible] in estate [illegible] [illegible] reddit exalacionem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Item [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Item [illegible] [illegible] [illegible] [illegible] [illegible]

no [illegible] Item [illegible] in temporibus plurimos [illegible] [illegible] [illegible] [illegible] [illegible] exalacionem [illegible] [illegible] [illegible] [illegible]

Oportet enim intelligere quod sicut in corpore nostro et tremoris et pulsus causa spiritus intercepti virtus est, et in terra spiritum similem facere, et hunc quidem terre motum velut tremorem esse, illum autem velut pulsum; et sicut accidit sepe post urinationem, per corpus enim fit velut tremor quidam quietus, [illegible] spiritu de foris intus subito [illegible] et ita terre [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] Item [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Nota [illegible] [illegible] [illegible] [illegible] [illegible] Item [illegible] exalacio [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

vias [illegible] [illegible] Item [illegible] [illegible] [illegible] [illegible] [illegible]

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Exurita autem habeat spiritus vim tantam non solum eorum que in aere sunt
et speculationis hic quid ipse magnitudinem estimabit utique aquile
posse [illegible] in corporibus animalium tetanum et spasmum spiritus [illegible]
sunt motus. Tanta autem virtute sunt ut multi simul temptantes vi-
tentes non possunt obtinere motum infirmantium. Talem oportet [illegible]
fieri et in terra ut comparationem ad parvum magnum [illegible]

[illegible]

Signa autem horum et admirationem saepe facta sunt [illegible] terre motus
[illegible] in quibusdam locis [illegible] non prius destitit [illegible]
[illegible] ut Nephias [illegible]
[illegible] in ponto [illegible]
[illegible] insularum [illegible]
[illegible] velut collis [illegible]
[illegible]
[illegible] in Italia [illegible]
[illegible]

[illegible]

[illegible] terra iuxta [illegible] clauditur cineribus et favillis et favilla et cineribus
repleverunt [illegible] longe distante a predicta insula [illegible]
venit ad [illegible] Cumba in Ytalia et hodierno die [illegible]
licet conflatio fuit [illegible] quia [illegible] ignis [illegible] in terra
[illegible] terra [illegible] ad [illegible] vel [illegible]
Nota 1[illegible] [illegible] declarat exalationem calidam et siccam [illegible] est [illegible]
[illegible] in quibusdam locis [illegible] terre motus [illegible]
[illegible] terra [illegible]
Sic ipse ventus egrediebatur per terram [illegible] et [illegible] et calida [illegible] terra [illegible] exalationem
[illegible] insula [illegible]
[illegible]
[illegible] insularum [illegible] insula [illegible]
[illegible] insula [illegible]
[illegible]
[illegible] insularum [illegible]
[illegible]
[illegible] insule et [illegible]
[illegible] terra [illegible]
[illegible]
[illegible] Item [illegible] insula [illegible]
[illegible]
[illegible] Item [illegible] insula [illegible] insularum [illegible]
[illegible] Ytalia [illegible] Item [illegible] conflatio
[illegible]
Item [illegible] conflatio [illegible]
[illegible] terra
[illegible] exalatio calida et sicca [illegible] ignis [illegible]
[illegible] exalatio [illegible] dilatati
[illegible]
[illegible]
Argumentum autem est [illegible] sub terra [illegible] terra [illegible]
insulas [illegible] ventus [illegible] flatus fuit
[illegible] conflationes [illegible] ad [illegible] insulas
[illegible] delonge [illegible] conflationes [illegible]
[illegible] ampliter
[illegible] loca [illegible]
[illegible]
[illegible] sub terra [illegible] insulas
[illegible] insulas [illegible] flatus
[illegible] conflationes [illegible] ventus [illegible]
[illegible] exalatio conflationum [illegible] terra [illegible]
[illegible] ventus [illegible] terre
[illegible] ampliter [illegible] loca [illegible]
[illegible] exalationem [illegible]
[illegible] exalationem [illegible]
[illegible] terra [illegible] insulas
[illegible] exalationes [illegible] sub terra [illegible]

[illegible] insulas [illegible] sicut [illegible] [illegible] tunc [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] et [illegible] loca [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] venti [illegible] [illegible] [illegible] [illegible] [illegible] accidit [illegible] [illegible] ad [illegible] [illegible]
[illegible] [illegible] insulas [illegible] tunc [illegible] exhalatio [illegible] [illegible] exsufflationem [illegible] terra [illegible]
[illegible] [illegible] expelli in terram [illegible] maior [illegible] terre [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] Item [illegible] [illegible] fit [illegible] terre motu [illegible]
[illegible] terre [illegible] [illegible] loca in que [illegible] exhalatio fuit valde [illegible]
[illegible] exhalatio [illegible] [illegible] [illegible] ergo [illegible] [illegible] [illegible] valde [illegible]
[illegible] [illegible] magnam violentiam in terra et [illegible] accidit [illegible] [illegible]
exhalationis [illegible] [illegible] accidit [illegible] [illegible] exhalatio [illegible] Adhuc
fieri solent caliginositatem et obscuritatem sine nube et [illegible]
[illegible] terre motus aliquam tranquillitatem et [illegible] forte signum [illegible]
est [illegible] [illegible] quod signa [illegible] [illegible] [illegible] [illegible] in aere
ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] adhuc [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] solem [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sole fieri obscurum [illegible] terremotus [illegible] [illegible]
[illegible] tranquillitas [illegible] forte [illegible] motus terre matutinos [illegible]
[illegible] [illegible] [illegible] [illegible] signum [illegible] exhalatio [illegible] terre motus [illegible]
[illegible] motus terre sol [illegible] obscurum [illegible] nubes [illegible] in aere [illegible]
[illegible] terre [illegible] matutino fit tranquillitas in aere [illegible]
[illegible] [illegible] exhalationem calidam [illegible] Solem [illegible]
liginosum et obscurum [illegible] [illegible] [illegible] in terram
dissolvere aerem et disgregare [illegible] [illegible] matutinos tranquil
litates [illegible] [illegible] tranquillitas quidem [illegible] [illegible] ut [illegible]
accidit quemadmodum [illegible] [illegible] [illegible] [illegible] [illegible]
et magis [illegible] [illegible] terre motus [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] magis [illegible]
accidit [illegible] exhalatio [illegible] ita calida [illegible] [illegible]
[illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible] et [illegible]
[illegible] [illegible] solem [illegible] [illegible] obscurum [illegible] exhalationem dissolvere
et disgregare [illegible] [illegible] in terram [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] matutinos [illegible] matutino [illegible] [illegible]
accidit tranquillitas quando [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] terram
[illegible] magis fit tranquillitas [illegible] terre motus [illegible] exhalationis dissipat
[illegible] [illegible] [illegible] exhalationibus [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] accidit [illegible] exhalatio [illegible] [illegible]
calida [illegible] in terram [illegible] [illegible] [illegible] terremotu sol [illegible]
caliginosus [illegible] [illegible] [illegible] terre motus [illegible] exhalatio [illegible]
a terra [illegible] [illegible] [illegible] [illegible] fit in terram [illegible] [illegible]
in aere [illegible] [illegible] [illegible] [illegible] [illegible] aer [illegible] [illegible]
[illegible] [illegible] vapores [illegible] [illegible] in aere [illegible] [illegible]
[illegible] [illegible] obscurum [illegible] Item [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] post terre motum [illegible] motus terre [illegible] vapores [illegible]
[illegible] [illegible] ergo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] solis
[illegible] [illegible] [illegible] [illegible] [illegible] solis [illegible] [illegible] [illegible] fit [illegible]
[illegible] [illegible] [illegible] [illegible] Item [illegible] fit terre motus tunc matutino
tunc [illegible] tranquillitas in aere [illegible] [illegible] [illegible] ventus
[illegible] [illegible] in terra ergo [illegible] futurum [illegible] terre motus tunc fit [illegible]

[illegible]

Non fiunt autem venti ex calidi, quia movet aerem continue plenum multo et frigido vapore sicut spiritus per os exsufflatus. Etiam de ipso calidus sicut et cum hyamus. Sed propter paucitatem non similiter manifestus. De longe autem frigidus propter eam causam.

Desiccante autem in terra [illegible] continues [illegible] vaporosus defectionis facit frigus in quibus accidit loci fieri.

[illegible]

Idem autem facta et signum consueti aeris fieri ante terremotum. Subtilis apparebat porrecta et longa velut lineae longitudine [illegible] purum existens [illegible] desiccante propter translationem [illegible]

[illegible]

Simile autem accidit et in mari et littore. Cum enim fluctus incidit vehementer, grosse et distorte fiunt emergentes. Cum autem

[illegible]

placidior fuit [illegible] ex prima sit [illegible] subtiles [illegible] et [illegible] ad caliginem
quod [illegible] magis [illegible] hoc [illegible] ad caliginem
ut [illegible] tranquillitas omnis [illegible] et subtilis [illegible]
[illegible] nubecula. Sic [illegible] magis [illegible] declarat [illegible]
[illegible] littora [illegible] fluctibus [illegible]
[illegible] ad littora [illegible] grosse et distorte [illegible]
[illegible] littora a fluctibus [illegible] placidis [illegible] tranquillitas [illegible]
[illegible] subtiles et [illegible]
[illegible] caliginem [illegible]
[illegible] nubecula [illegible] subtiles [illegible]
[illegible] declarat [illegible]
[illegible] maris [illegible] fluctus [illegible] littora [illegible]
[illegible] littora [illegible] eclipses fluctuum [illegible] grosse et distorte [illegible]
[illegible] placidum [illegible] littora [illegible]
[illegible] littora [illegible]
[illegible]
[illegible] nubecula subtiles [illegible]
[illegible] tranquilla [illegible] alia [illegible]
[illegible] figure distorte et inordinate [illegible]
eclipses [illegible] aliquando [illegible] motu [illegible]
[illegible] quod sit [illegible] defectus lumine [illegible] a sole calidi
[illegible] manifestum tranquillitatis fit [illegible]
[illegible] motum [illegible] eclipses [illegible]
[illegible] venti
[illegible] eclipses [illegible] motu [illegible]
[illegible] solem et lunam [illegible]
[illegible] lune [illegible] calidi [illegible] a sole [illegible]
[illegible]
eclipses fit tranquillitas [illegible]
[illegible] eclipsim lune fit [illegible]
eclipsi lune [illegible] sole et lunam [illegible]
[illegible] luna [illegible] calidus [illegible]
[illegible] a sole [illegible]
[illegible] tranquillitas [illegible]
[illegible] eclipsi lune [illegible]
[illegible]
[illegible] luna [illegible]
Fiunt autem et venti in eclipsibus sepe in principio enim noctis [illegible]
eclipses [illegible] noctis in media autem nocte in diluculo [illegible]
accidit [illegible] manifeste calidi ex alia [illegible] quod [illegible]
[illegible] luna in quo [illegible] eclipsis ventus [illegible] calor [illegible] quo [illegible]
[illegible] aer et quiescebat [illegible] fit [illegible] tardior eclipsis
tardior [illegible] venti sepe
[illegible] eclipses [illegible] eclipses [illegible] noctis fiunt venti in principio
noctis [illegible] eclipses fiunt venti in media nocte [illegible] accidit
[illegible] a luna [illegible] luna [illegible]
[illegible] in quo [illegible] eclipsis [illegible] ventus [illegible] quo aer [illegible] et
quiescebat [illegible] quietus [illegible] advenientis [illegible]

[illegible]

Cum autem forte fiat terre motus, non mox nec ad semel cessat agitans, sed quod primo quidem usque ad circa quadraginta dies agitat, posterius autem et ad annum et ad duos annos [illegible]

[illegible]

Causa autem magnitudo quidem multitudo spiritus et locorum figure per quas utique fluxerit; qua quidem enim repulsus fuerit et non facile pertransierit, maxime agitat et intus relinquitur in angustiis velut aqua non potens pertransire. Propter quod sicut in corpore pulsus non repente cessant neque cito sed paulatim marcescente passione, et principium a quo exhalatio facta fuit et dedit impetum. Palam quod non omnem consumpsit materiam ex qua facit ventum quam vocamus terremotum. Quousque ergo consumantur reliquie, necesse agitari; debilius autem et usque adeo donec utique minor sit exhalatio quam ut possit movere manifeste. [illegible]

[illegible]

[illegible] cito [illegible] aquarum [illegible] manifestat i. donec [illegible]
[illegible] aqua [illegible] vel [illegible] a quo [illegible] sunt
exalacio [illegible] terremotus vel venti [illegible] a quo [illegible] cito
[illegible] vento [illegible] terre [illegible]
[illegible] agitat terram quousque [illegible]
[illegible] agitat terram [illegible] donec [illegible] exalatio sit [illegible]
[illegible] possit [illegible] magnus motus
[illegible] exalaciones [illegible] in terra [illegible]
[illegible] exalacio [illegible] exalacio [illegible] aqua [illegible]
[illegible] a talibus [illegible]
[illegible] exalacionis ad talia loca terre [illegible]
[illegible] exalacio [illegible] in terra [illegible] aque [illegible]
[illegible] terre [illegible] fit [illegible] terre motus
[illegible] valde longo [illegible]
[illegible] motus [illegible] terre motus [illegible]
[illegible] tempus quousque materia [illegible] manifestat [illegible] tempestati [illegible]
[illegible] agitat [illegible] exalaciones [illegible]
[illegible] terremotus [illegible] sit terre motus [illegible]
[illegible] terre [illegible] terra [illegible]
[illegible] tempestati [illegible] agitat terram [illegible]
[illegible] exalacio [illegible] agitat terram [illegible]
[illegible] exalacio fiat ita [illegible] possit
[illegible] terram [illegible]
[illegible] vel post quod [illegible] cessat terre motus [illegible] aqua
[illegible] exalacio [illegible] terram [illegible] post [illegible] vel post [illegible]
[illegible] sonos qui sub
terra sunt [illegible] in terremotus et in terre motibus [illegible]
[illegible] sunt sub terra [illegible] terre
motus [illegible] percussi[illegible]
[illegible] exalacio [illegible] sonos [illegible] sunt sub terra [illegible] sonos [illegible]
[illegible] terre [illegible] terra [illegible] motibus terre [illegible]
[illegible] exalacio [illegible]
[illegible] sonos [illegible] sub terra [illegible] exalacio [illegible]
sunt [illegible] terre [illegible] sonos [illegible] sunt in motibus terre
[illegible] et [illegible] percussus aer omnimodos emittit sonos
sic et percussus [illegible] simul et [illegible]
[illegible] omne [illegible] sonus [illegible] subtilior [illegible]
[illegible] et [illegible] magis [illegible] et minor sunt
[illegible] ut moveat terram [illegible] subtilitatem [illegible] facile [illegible]
non potest movere terram [illegible] offendit ad solidas moles [illegible]
et omnimodas figuras omnimodos emittit sonos ut [illegible]
[illegible] dicunt prodigia vulgares mugire terram [illegible]
[illegible] et [illegible] terre [illegible]
[illegible] minor [illegible] percussi [illegible] sonus
[illegible] sonos [illegible]
[illegible] percussi [illegible] quo ad [illegible] sonos [illegible]
[illegible] motu terre [illegible] subtilior [illegible]
magis [illegible] vel exalacio [illegible] exalacio [illegible] minor [illegible]
ut moveat terram [illegible] terram [illegible] subtilitatem [illegible] potest movere terram
[illegible] offensive [illegible] ad magnas solidas [illegible] et omnimodas
figuras [illegible] emittit omnimodos sonos ut [illegible] appareat terra mugitum facere [illegible]

quod vulgares dicunt de Sygna prosticatus futurorum [illegible]

[illegible]

[illegible]

Iam aut et
aque contingit fieri terremotibus sed non propter hoc aqua causa
motus. Sed si fluit ex superficie aut desubter violenter insistat spiritus

fluctus

[illegible] et sicut fluctus venti. Sed non fluctus ventorum
[illegible] sic utique omnis causet passionis [illegible] cum a-
gitatus quemadmodum aqua effusio cum cursu quod est. Sed hec
ambo fiunt ut materia patiens [illegible] sed non agunt [illegible]
ut prima [illegible]

[illegible]

[illegible] inundacionem aquarum [illegible]
[illegible] Ubi autem simul cum terre
motu fluctus fiunt [illegible] fiunt [illegible] hoc autem
fit cum agitatur terra latum ab illo spiritu mare impellere quando omnino
non possit, repellens autem et coartatus ad eundem congregantur multum
Tunc cum [illegible] vento [illegible] spiritu simul multum pulsum a terra
[illegible] erumpere et facere cathaclismum [illegible]

[illegible]

[illegible] Fiunt autem [illegible] acha-
yam [illegible] quidem non erat auster ibi autem boreas tranquillitate autem facta
et fluxus intus ventus factus fuit fluctus et terre motus simul et
magis propter mare non dare flatum impetum facienti sed etiam spiritui
[illegible] obsistere [illegible] spiritus quidem terre motum faciet
[illegible] autem spiritus cathaclismum [illegible]

[illegible]

[illegible] Secundum partem autem
fiunt terre motus et sepe ad modicum locum; venti autem non secundum

propter quod et exalaciones que secundum locum ipsum et vicinitatem conveniunt in unum, sicut et spiritus diurni fiunt et plurimi ab hac parte et terremotus quidem fiunt propter hunc modum. Sed quidam etiam in terra pluvias habent, ut ad unum omnes impetum. Sol autem non similiter potest plurimum aut supponere magis, ut fiat exalacio, et recipit a solis calore. Dum fiunt oras locorum ad unum...

[illegible]

Cum quidem igitur fuerit multus spiritus, movet terram, ut aut tremor ad latitudinem fit. Aliquando autem et fiunt quaedam loca velut pulsus sursum de subter, propter quod minus agitat hoc modo. Non enim facile sic eo venire multum principium ad longitudinem; enim multo ... exalaciones ... aut fiunt tales seismi, sicut Bulicum in Caldaya. Hoc enim modo fit seismus, quae circa Sipylum facta sunt et campum vocatum Flegreum et circa Ligusticam regionem.

[illegible]

[illegible] in terra ab [illegible] in aere vel aquo [illegible] motus multis ventus exhalationis
que a [illegible] terre [illegible] sunt [illegible] sed [illegible] fuit [illegible] et terre motus [illegible]
[illegible] in [illegible] de lapidis [illegible] multitudo aquarum bulliendo in
caldariis et [illegible] loca [illegible] et [illegible] [illegible] [illegible] et [illegible]
[illegible] loca [illegible] fit et [illegible] ligustica [illegible] ita est
[illegible] fit [illegible] ab exhalatione multa sicut [illegible] fit motus terre [illegible]
motus pulsus [illegible] sed [illegible] motus [illegible] fit [illegible] exhalatio movet terram
[illegible] latitudinem fit [illegible] terre motus [illegible] terram [illegible] ad
[illegible] et [illegible] ultra [illegible] et [illegible] fit multis
[illegible] fit [illegible] terre [illegible] motus pulsus fit [illegible]
exhalatio ascendens a locis inferioribus et movet terram [illegible] fit [illegible]
ad [illegible] motus [illegible] exhalationis multitudo et [illegible] ita fac[illegible] [illegible]
[illegible] multitudo exhalationis [illegible] motus ab inferiori ad superius [illegible]
[illegible] multitudo exhalationis [illegible] longitudinem [illegible] motus terre lateraliter
[illegible] et [illegible] [illegible] secundum latitudinem vel longitudinem [illegible]
[illegible] et [illegible] in [illegible] exhalatio [illegible] longitudinem vel latitudinem [illegible]
[illegible] multitudo [illegible] a [illegible] [illegible] [illegible] fit
et terre motus [illegible] fit [illegible] terre [illegible] in ipso [illegible] exhalationem
impetuose [illegible] fit [illegible] vel aqua [illegible] bulliat in caldariis [illegible]
[illegible] exhalationis [illegible] in aqua [illegible] [illegible] [illegible]
cadat [illegible] [illegible] terre motu [illegible] multa loca et urbem que
[illegible] sunt [illegible] et [illegible] campis flegreum [illegible] multa loca et
[illegible] que [illegible] ligustica vel ligustica In insulis aut ponticis
non fiunt terre motus quia in hiis que ad terram similitudo maris
infrigidat exhalationes et prohibet pondere suo omnino [illegible] aut
[illegible] agitata [illegible] a [illegible] et quia multum [illegible] locum
[illegible] exhalationes fiunt et [illegible] que [illegible]
[illegible] et [illegible] terram [illegible] terre [illegible] nullus
[illegible] ponticas aut non [illegible] movet in mari toto a quo
[illegible] De terre motibus quid sit et que causa et propter quid causa
fiunt et de aliis [illegible] et [illegible] est de [illegible] hic [illegible]
in quibus locis fiat [illegible] terre motus et in quibus fiat magis [illegible]
[illegible] de terre motibus [illegible] in insulis ponticis [illegible] maris
non fiunt motus terre quia in hiis que ad terram [illegible] multitudo maris
[illegible] exhalationes [illegible] multitudo maris [illegible] exhalationes [illegible]
[illegible] multitudo maris [illegible] in [illegible] agitatur ab exhalacionibus
[illegible] multitudo maris [illegible] locum [illegible] exhalationes [illegible] in hac [illegible] sed
[illegible] et [illegible] exhalatio [illegible] et [illegible] insule [illegible] terram
[illegible] terre [illegible] ponticas [illegible]
[illegible] in toto mari [illegible]
[illegible] de motibus terre [illegible] fit [illegible] terre motus [illegible] terre motus [illegible]
[illegible] de aliis [illegible] et [illegible] terre motus et [illegible] est [illegible]
[illegible] in insulis [illegible] terra [illegible]
[illegible] vallata aquis non fiunt terre motus [illegible] terra [illegible]
[illegible] multitudo maris [illegible]
exhalationem [illegible] maris terram [illegible] multitudo maris [illegible]
[illegible] motus [illegible] exhalationes [illegible] terre [illegible] infrigido
[illegible] possit movere terram [illegible] multitudo maris [illegible] fiunt

[illegible]

Tractatus Quartus de ... cala[...]

De choruscatione autem et tonitruo adhuc autem de typhone et incensione et fulminibus dicamus, et horum eandem principium existimare oportet omnium.

[illegible]

Exhalationis enim ut diximus existente duplici, hac quidem humida, hac autem sicca, et concretione habente ambas has potentia, et consistentes factae in nube, sicut dictum est prius

[illegible]

Adhuc autem spissior existente nubium facta est ultima ...

[illegible]

... locum hac spissiorem et frigidiorem ...

[illegible]

fulmina et ecnephie et omnia talia fere. de cursu [illegible] nato
sursum ferri omnis [illegible] contraria inflammationis necessario fieri est
sionem velut pyrites cum digitis compellentes et cum hac pondus
[illegible] ferrum sursum [illegible]

[illegible]

Segregata
quidem in superiorem dissipatur locum. Quandoque autem in-
clusa [illegible] exhalatio in [illegible] nubi
bus segregata aut lata et offenderis et ad generandas nubes facit
percussionem cuius sonus vocatur tonitruum [illegible]

[illegible]

Fit autem percussio eodem modo ut
tempore magna minor passio et cum in flamma fit sono quem vocant
hii quidem vulcanum ridere, hii autem vestam, hii autem comminationem
horum. Fit autem cum exhalatio in flamma [illegible] et sicca
[illegible] sic cum et in nubibus sic spiritus segregatus ad spissitudinem in-
cidens facit tonitruum [illegible]

[illegible]

Tonitruum est sonus factus in nubibus ex violenta percussione exalationis calide in frigore — *ad latera nubis*

[illegible] sit maior [illegible] percussionis in nube sit [illegible] qui fit in flamma [illegible] in lignis [illegible] [illegible]

[illegible]

diversitate [illegible] — Cuiusmodi autem sunt

per irregularitatem fuit nubium et per intermedios [illegible] *in: qua* — [illegible] continuitas deficit spissitudinis: Tonitruum. quod est hoc est

et fit per haustum [illegible]

[illegible]

Emissus autem [illegible] extrusus secundum multa

tenuis ignitur a subtili et debili ignitione, et hoc est quod vocamus chori-

coruscatio — scationem, quae utique velut excidens spiritus coloratus apparet. [illegible]

[illegible]

Coruscacio est [illegible]

Fit autem post percussionem et posterius

tercium — Tonitruum. Videtur autem prius, quia visus anticipat auditum. [illegible]

[illegible] in trierium remos [illegible]

sonus percussionis [illegible]

[illegible] in absentia [illegible] [illegible]

[illegible]

[illegible]

Capitulum secundum

[illegible] Capitulum quidem dicat eum in nubibus fiat ignis. Sicut ait Empedocles quidam aut interceptum ex solis radiis. Anaxagoras autem de eo qui desuper ethere, quem ille vocat ignem, delatum desursum deorsum. Micationem quidem huius ignis esse choruscationem. Sonum autem intus extincti et stridorem tonitruum, tamquam sicut videtur sic et prius choruscatio fit tonitruo [illegible]

[illegible]

[illegible] Anaxagoras autem ignis interceptus [illegible] magis autem delatio eius desuper ethere [illegible]

[illegible]

[illegible]

dicit causam quia a radiis caliditatis intercepta in nubibus. Similiter autem et
tamen non probabile. Etiam iste sermo [illegible] deus est valde
[illegible] tamen [illegible] cum semper [illegible] et que
[illegible] et que choruscationis et aliorum talium et sic fieri [illegible]
aut dicit plurimum. Similiter autem et utique si quis putat [illegible] et
[illegible] et grandinem [illegible] post [illegible] sequi et non fieri
velut ypothesi facere semper generationem uniuscuiusque [illegible]
[illegible] et illas [illegible] et has [illegible]
[illegible] si alia illorum non sunt sed sunt de ambobus eadem con
[illegible]

[illegible]

aqua [illegible] [illegible] [illegible] [illegible] [illegible] et congregationem [illegible] Si tonitruum [illegible]
[illegible] [illegible] nono [illegible] nube [illegible] [illegible] est eadem
[illegible] de aqua [illegible] [illegible] Interpositum est aquam vicius
magis altum dicit [illegible] [illegible] in [illegible] etiam aqua
a sole et igne fit calida [illegible] [illegible] et infrigidatur aqua
[illegible] nullam [illegible] [illegible] [illegible] illi dicunt [illegible]
oportebat [illegible] magnus [illegible] facere [illegible] abigne
[illegible] [illegible] [illegible] sonum [illegible] [illegible] [illegible]
[illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] obti
nuit [illegible] [illegible] facit sonum [illegible] [illegible] [illegible] [illegible]
[illegible] et [illegible] [illegible] ponit quod [illegible] ibi est aut [illegible] [illegible]
[illegible] dicit [illegible] i. calidi [illegible] [illegible] ad [illegible]
[illegible] vel igne [illegible] [illegible] [illegible] in [illegible] corporibus
[illegible] quia aqua fit calida a sole et ab igne [illegible]
[illegible] [illegible] [illegible] et aqua [illegible] infrigidata [illegible]
[illegible] [illegible] vel [illegible] aqua [illegible] illi dicunt [illegible] oportebat [illegible]
[illegible] aqua abigne [illegible] calide [illegible] [illegible] magnus [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] facit [illegible] sonum [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fit
[illegible] aqua [illegible] [illegible] obtinuit calidum [illegible] [illegible] in aqua [illegible]
[illegible] facit sonum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 32 90
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] igneus [illegible] nube
[illegible] [illegible] [illegible] [illegible] igneus [illegible] nube [illegible] [illegible] igne [illegible]
[illegible] [illegible] [illegible] [illegible] nube [illegible] [illegible] [illegible] facit tonitruum [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] igneus [illegible]
[illegible] [illegible] [illegible] tonitruum [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nubibus [illegible] [illegible]
tonitruum [illegible] [illegible] alterum [illegible] igne [illegible] [illegible] radijs solis [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
nube [illegible] [illegible] [illegible] calefit ab igne et a sole [illegible] [illegible] nube cale
[illegible] aqua [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tonitru
et [illegible] aqua [illegible] [illegible] [illegible] nube [illegible] [illegible] ita
[illegible] in aqua [illegible] in nube [illegible] [illegible] [illegible] [illegible] [illegible]
calefit [illegible] calida [illegible] ab igne [illegible] facit [illegible] [illegible]
[illegible] [illegible] [illegible] frigida [illegible] [illegible] [illegible] facit sonum [illegible]
[illegible] [illegible] nube [illegible] [illegible] [illegible] [illegible] facit sonum [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] fit [illegible] [illegible] sonus [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] fit [illegible] [illegible] sonus
vel [illegible] [illegible] [illegible] calidum [illegible] [illegible]
aqua obtinuit victoriam [illegible] facit [illegible] [illegible] sonus [illegible] Dicunt
aut quidam qui chouscationem sicut [illegible] et Cleodemus [illegible] [illegible] Chledeni
[illegible] [illegible] assimilantes [illegible] [illegible] fit [illegible] [illegible]
[illegible] [illegible] cum aqua effulgens [illegible] fit in nube [illegible]
tum [illegible] [illegible] apparentiam fulgoris et chouscationis [illegible] ponit
[illegible] [illegible] [illegible] tonitruum et chouscationem [illegible] [illegible]
[illegible] [illegible] [illegible] colligit [illegible] [illegible] [illegible] [illegible] autem [illegible]
[illegible] [illegible] [illegible] quod [illegible] [illegible] de chouscatione sicut Cleodemus

[illegible]

Testi quidem in eodem consueti causa huius que de refractione operibus est. quidem videtur enim talis passio. Cum videtur cum aqua fulgere percussa visio ab ipsa visu ad aquam fulgidior apparet quod et fit hoc magis nocte. Die enim non videtur et apparuit lumen omne quod die excitat

[illegible]

Reliquum dicatur ab aliis et de tonitruo et de exhalatione

Hec sunt quecumque extra exhalatio huius ac et ignis quidem plurimo exhalato Tonitru aut conficio non vult facto ignem veniente passionem ignis. Secundum ... hos ac dicam de causa. Super terram quidem ventum in terra ac terremotum in nubibus aut tonitruum Omnia enim hec sunt speciem eandem exhalationem siccam que fluens quidem qualiter ventus est. Sic aut facit terremotus in nubibus aut disgregat quemcumque et congregat ipsum in

aeris tonitrua et choruscationes / et cum hiis alia natura [illegible]
hiis convenientia / et de tonitruo quidem et choruscacione dictum est [illegible]
[illegible] de tonitruo et choruscacione [illegible]
[illegible]

[illegible]

Liber tercius [illegible] tractatus

Ex residuis autem dicamus operibus secretionis huius productis iam modo dicentes

Liber 3us metheororum in quo philosophus determinat de quibusdam aliis impressionibus generatis ex exhalacione calida et sicca extra nubem. Et de impressionibus que generantur ex luce solis et lune et quarundam aliarum stellarum reflexis super nubes humidas / et eum [illegible]

[illegible]

Primus tractatus [illegible] capitulum 1

[illegible]

Spiritus enim segregatus per modica

et sparsim diffusus et saepe factus et permanens et subtilior

existens tonitrua facit et choruscationes. Si autem multus simul et

spissior, minus autem segregatur subtilius, ecnephias ventus fit, propter quod

et violentus: velocitas enim segregationis facit fortitudinem.

[illegible]

Igitur quando segregatio multa et continua segregatur, eodem modo fit quemadmodum

cum ipsum in contrarium mutatur. Tunc enim pluvia et aque fit

multitudo. Secundum potentiam quidem igitur ambo existunt materia. Sed

cum segregatio fuerit potentie cuiuscumque consequi contrarium, et inde ex

neque autem fuerit multo magis amplior et amplius est, sic

quidem imber, illic autem alterius exalationis ventus et ecnephias est.

[illegible]

[illegible]

congregata spumositas quam in nube aliquando compressit sic ut ex angustis in angustum inclusa importune a parte erumpit. Accidit cum strepitu in talibus expulsa prima parte fluctu [illegible] succedere a parte [illegible] [illegible] hoc quidem cum [illegible] pluribus [illegible] hoc autem posterius impellit [illegible] compellit in latus [illegible] non pluribus ferri [illegible] et sic semper [illegible] nec utrumque [illegible] fiat hoc [illegible] Ergo [illegible] sunt [illegible] et in nubibus [illegible]

[illegible]

Exhalatio ... [illegible] ... est enim ... [illegible]
... dicitur ... [illegible] ... [illegible]
Secundo ... [illegible] ... de nube ... [illegible] ... exhalationis ... [illegible] ... ventus ... [illegible]

donec totus motus fiat ... [illegible] ... illud ... [illegible]
... [illegible] ... ventus ... [illegible] ... ad ... [illegible]
... [illegible] ... venti ... [illegible] ... aliter ... [illegible]
ad ... [illegible] ... exhalatio ... [illegible] ... nubes ... [illegible]
... [illegible] ... nubis ... [illegible] ... fit ventus ... [illegible] ... nube ... [illegible]
... [illegible] ... venti ... [illegible] ... ventus ... [illegible]
... [illegible] ... in estate in campo ... [illegible] ... venti ... [illegible]
... [illegible] ... venti ... [illegible] ... nubes ... [illegible] ... loco ... [illegible]
... [illegible] ... illi ... venti ... [illegible] ... aliter ... [illegible]
... [illegible] ... et sic fit ventus ... [illegible] ... illi ... venti ... [illegible]
... [illegible] ... rotunda ... [illegible] ... semper ... [illegible] ... in alto ... [illegible]
... [illegible] ... Contingit quia sicut ex exhalatione
fiunt semper nubes segregata et fit contiguus ventus sic ... contiguus
assequitur nubis propter spissitudinem at non potest segregari spiritus ex nube
... [illegible] ... cum ... [illegible] ... propter ... [illegible] ... exhalatio
... [illegible] ... [illegible]
... [illegible] ... tyffon ... [illegible] ... segregari nubes
... [illegible] ... ventus contiguus ... fiunt ... exhalationes ... [illegible]
... [illegible] ... nube ... [illegible]
... [illegible] ... exhalationes et tyffon ... [illegible] ... exhalatione
... nubes segregari ... [illegible] ... exhalatio ... [illegible]
... [illegible] ... ventus ... [illegible] ... nubis ... [illegible]
... [illegible] ... exhalationem ... [illegible] ... tyffonis ... exhalatio ... [illegible]
... [illegible] ... nube ... exhalatio ... [illegible]
... [illegible] ... nube ... segregata ... nubis ... [illegible] ... exhalatio ... [illegible]
... [illegible] ... exhalatio ... [illegible]
... nube ... [illegible] ... nubes ... [illegible] ... nubes ... [illegible]
... [illegible] ... et sic fit ... [illegible] ... nube
... [illegible] ... nubes ... [illegible] ... nube ... [illegible]
Decisio autem fertur quia semper nubes inspissata ... calida
... [illegible] ... tyffonis ex nube ... tyffon ... [illegible]
nubes ... [illegible] ... tyffon ... [illegible]
exhalatio ... [illegible] ... nube ... [illegible] ... nubes ... [illegible]
... [illegible] ... vocatur autem si incolorata fuerit
Hec passio tyffon ventus existens velut exhalatio indigestus
... [illegible] ... ex nube ... vocatur tyffon ... [illegible]
exhalatio ... ex nube sunt ... color igneus ... fit tyffon ... [illegible]
ventus velut exhalatio indigesta ... [illegible] ... ex nube per
modum ... [illegible] ... color igneus ... vocatur tyffon ... ventus
indigestus ... exhalatio ... indigestus ... [illegible]
... alterata a calore ... [illegible] ... exhalatio ... [illegible]
alterata ... valde apta ad inflammandum ... indigesta ... [illegible]
... apta ad inflammandum ... indigesta ... Borealibus autem non fit tyffon
neque ninosis hiemalibus exhalationibus propter eadem omnia hec spiritus sunt.
Spiritus autem sicca calida fit exhalatio congelatio igitur et frigus ipsa obtinent
extinguunt mox fieri adhuc primum. Quod autem obtinet palam.
Neque enim utique esset ninositas neque borealitas humida ... autem

3

94

[illegible]

accidit de obtinere frigiditatem. Hic philosophus determinat de loco et tempore generationis tiffonis et ecnephie dicens [illegible]

[illegible]

Fit quidem igitur tiffon cum ecnephias fiens non possit segregari a nube. Est autem propter repulsionem generationis cum ad terram delata fuit involuta simul deducens nubem non potens absolvi que autem sui directum efflat habens hic spiritus movetur et circulari motu vertitur et sursum fert et cumque incidit vim inferens. Hic philosophus determinat de quodam [illegible]

[illegible]

Cum autem detractus ignitus fuerit [illegible] subtilior fuerit prester vocatur incensio autem calefaciens aerem colorans [illegible]

[illegible]

[illegible] fulmen fit causa [illegible] et [illegible] motu [illegible]
de ipso lapide [illegible] de lateribus [illegible] proporcionabiliter [illegible] reducant adeo ut fit
[illegible] propter causam lapide omnis qui de [illegible] fulmen [illegible]
est magis [illegible] quod sit subtilius [illegible] Et in [illegible]
[illegible] generare [illegible] Et ita [illegible] generare [illegible]

Textus
Secundum
Expositio

22 [illegible] exalacio calida et sicca [illegible] a nube [illegible] exalacio fuit
subtilis et [illegible] magis [illegible] flamma [illegible] fit [illegible]
[illegible] Et [illegible] flamma [illegible]

Si autem in ipsa nube multus et subtilis extruditur spiritus hic fit fulmen. Si quidem valde subtilis non adurit propter subtilitatem quod poete argeta vocant. Si autem minus adurens quem solometa vocant.

[illegible] fulmen [illegible] Et [illegible] fulmen [illegible] sunt [illegible] effectus [illegible] fulmen [illegible] quod [illegible] et [illegible] subtilis [illegible] a nube [illegible] fit fulmen [illegible] et valde subtilis non adurit propter subtilitatem [illegible] poete vocant argeta [illegible] minus subtilis [illegible] poete vocant solometa [illegible] exalacio calida et sicca [illegible] subtilis [illegible] exalacio [illegible] a nube et inflammata [illegible] fulmen [illegible] exalacio [illegible] subtilior [illegible] exalacio [illegible] fulmen et ita subtilis [illegible] poete vocant argeta [illegible] exalacio [illegible] minus subtilis [illegible] poete vocant solometa.

Hic quidem enim propter subtilitatem pertransit propter velocitatem autem pertransit penitus antequam ignitur et moram faciens denigrat. Hic autem tardior colorat quidem consumit autem non [illegible] permanet.

[illegible] effectus istorum [illegible] fulmen [illegible] declarat effectum [illegible] tardior [illegible] argeta [illegible] subtilitatem [illegible] denigrat [illegible] tardior [illegible] fulmen [illegible] argeta [illegible] exalacio calida a sicca [illegible] subtilis [illegible] exalacio [illegible] calida [illegible] fulmen [illegible] solometa [illegible] subtilis exalacio [illegible] tardius [illegible] sufficientem [illegible] ad questionem

Mergo et resistentia quidem patiuntur aliquid, que autem non, nihil. Dux eorum clipei circuli liquefactum, lignum autem nihil passum sunt; ipse vaste cum pervenit spiritus penetrans et pertransiens. Et per vestimenta similiter non combussit, sed velut attonita fecit.

[illegible]

Quedam ex his possunt fieri omnia palam ex talibus. Est autem et oculis videre velut et nunc accidit et templum in Epheso combustum: ad multas enim partes flamma ferebatur continua distincta seorsum. Quod quidem enim fumus spiritus est et ardet fumus, manifestum in aliis prius dictum est. Cum autem multum simul exeat, tunc manifeste videtur spiritus esse. Quod quidem enim in parvis ignibus videtur, hoc et in multa tunc fiebat multo fervente. Rupto ergo lignis in principio spiritus erat multus secedebat simul quod flabat efflabat et ferebatur sursum ignitus, ut videretur flamma ferri et cadere domos.

[illegible]

[illegible] a [illegible] ad multa loca [illegible]

[illegible]

Semper enim putatur ob assepsim[?] fulminibus [illegible]

[illegible]

[illegible] Et tonitrua autem dividit non sono [illegible]

[illegible] et eu[?]…a. Adhuc autem [illegible]

[illegible]

De halo autem et iride quid utrumque et propter quam causam sit dicamus, et de parelys et virgis: etenim omnia hec fiunt propter easdem causas invicem. Primo autem oportet accipere passiones et accidentia circa unumquodque ipsorum.

[illegible]

Halo quidem igitur apparet sepe circulus totus et circa solem et lunam et circa splendida astrorum, adhuc autem nichil minus nocte quam die et meridie quam sero, diluculo autem minus et circa occasum.

[illegible]

Iris autem numquam fit circulus neque maior semicirculo, et occidente quidem et oriente minima quidem circuli, maxima autem portio; elevato autem magis circulo quidem maior, minor autem portio.

[illegible]

[illegible] in octavo [illegible]

[illegible] circa principium in [illegible] [illegible] post [illegible] capitulum [illegible]

[illegible] magis [illegible] super [illegible] quod [illegible] /. [illegible] [illegible] [illegible]

et brumalibus — [illegible] [illegible] [illegible] [illegible] diebus omni hora fit dici [illegible]. Et post autumpnale equinoctium meridiem [illegible] circulat [illegible] quo ad [illegible] in brumalibus diebus post equinoctium autumpnale [illegible] fit omni hora dici [illegible] in [illegible] diebus [illegible] brumalibus ad [illegible] apparent [illegible] est [illegible] in hyeme [illegible] [illegible] apparent [illegible] in estate [illegible] sol [illegible] quod sol [illegible] oblique [illegible] capitis [illegible] in hyeme [illegible] oblique in estate [illegible] plus [illegible] ad [illegible] capud [illegible]

duabus plures yrides fiunt simul [illegible] aut [illegible] color quidem [illegible] et colores eosdem et equales secundum [illegible] [illegible] [illegible] Observandum aut [illegible] et [illegible] [illegible] secundum [illegible] [illegible] [illegible] aut [illegible] [illegible] [illegible] maxima [illegible] [illegible] at [illegible] intimam [illegible] [illegible] [illegible] ad hanc [illegible] [illegible] [illegible] colores [illegible] quos [illegible] non [illegible] non [illegible] facere pictores [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] aliquis [illegible] [illegible] aut [illegible] [illegible] colores [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] circulat [illegible] [illegible] [illegible] colorum [illegible] [illegible] [illegible] plures yrides [illegible] [illegible] [illegible] [illegible] colores [illegible] colores [illegible] colores [illegible] [illegible] [illegible] [illegible] colores [illegible] colores [illegible] quos [illegible] [illegible] pictores facere [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] color [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colores [illegible] color [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] colores et illi [illegible] [illegible] colores [illegible] [illegible] [illegible] [illegible] colores [illegible] [illegible] extra [illegible] [illegible] [illegible] ita quod [illegible] [illegible] [illegible] [illegible] color [illegible] [illegible] colores [illegible] [illegible] [illegible] [illegible] colores [illegible] colores [illegible] [illegible] [illegible] color [illegible] [illegible] color [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] istos colores solos facere [illegible] [illegible] [illegible] [illegible] colorum [illegible] [illegible] aut [illegible] [illegible] [illegible] [illegible] [illegible] color [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] color [illegible]

Parelii aut [illegible] fiunt [illegible] semper et neque desuper neque ad terram neque ex opposito [illegible] et nocte [illegible] solem [illegible] at [illegible] [illegible] descendit [illegible] plurima aut ad occidentem [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] die simul [illegible]

Duo parelii permanserunt usque ad occasum ... et
unicuique tempore accidunt. Sed sunt ...
parelios et virgas dicens quod parelii et virge semper sunt ex latere solis ...
parte aquilonis vel meridiei, numquam desuper solem neque ad terram ...
solis, neque etiam nocte ... et soleus de die ...
[illegible]

in parelii

virge

bossorus

[illegible]

Et ab aqua fit et ab aere et omnibus huiusmodi superficie planam [illegible]

[illegible]

Et quia speculorum in quibus quidem et figure apparent [illegible] in quibusdam autem colores solum [illegible] alia autem [illegible] et nullam habent diuisionem [illegible] apparent [illegible] et diuisionem [illegible] apparent [illegible]

[illegible]

[illegible]

Color autem aeris circumdantis clar[illegible] [illegible] claritatis [illegible] aer autem appetit misceri ei qui spectatur [illegible] debiliter [illegible] colorem efficit fantasiam sicut et nobis de hiis speculantibus in [illegible] cum sensum [illegible] quidem dicamus [illegible] Hiis autem [illegible] [illegible]

[illegible]

Tam[illegible]

De figura halo dicamus et quare circulus [illegible] Primo autem fit et quare et solem et lunam fit autem et [illegible] aliis astris eadem [illegible] in omnibus congruet [illegible]

[illegible]

[illegible] et vapor in nu[illegible] fit [illegible] visus consistere [illegible] [illegible]

[illegible]

[illegible] ad aliud [illegible] [illegible] [illegible] sit [illegible] [illegible]
[illegible] [illegible] ad [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] halo [illegible]
a vapore vel nube [illegible] vapor vel nubes [illegible]
[illegible] vel [illegible] halo [illegible] vaporibus vel
[illegible] vapor [illegible] nubes [illegible] vel pluvie [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

[illegible] [illegible] aque [illegible] dispersiones
Preterea quod [illegible] signum [illegible] [illegible] et marcedines [illegible]
[illegible] dispersiones aut [illegible] Si quidem cum [illegible] marcescat
[illegible] distillat [illegible] pluvia [illegible] [illegible] aque signum [illegible]

[illegible] signum [illegible] [illegible]
[illegible] halo [illegible] pluvie [illegible]
[illegible] nubes vel [illegible] halo [illegible] pluvie [illegible]
[illegible] [illegible] nubes vel halo [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] halo [illegible] [illegible] pluvie [illegible]
[illegible] halo [illegible] [illegible]
venti [illegible] [illegible] [illegible] halo [illegible]
[illegible] halo vel [illegible] [illegible] [illegible]
[illegible] venti [illegible] [illegible] [illegible] [illegible]
[illegible] signum [illegible] pluvie [illegible]

[illegible] cum [illegible] [illegible] aque [illegible] [illegible] ac
[illegible] [illegible] in aqua [illegible] [illegible] [illegible]
[illegible] alius [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] halo [illegible] signum [illegible] pluvie [illegible]
[illegible] vapor [illegible] [illegible] [illegible]
[illegible] nubes [illegible] [illegible] nubes
[illegible] [illegible] nubes [illegible]
halo vel [illegible] [illegible] [illegible] sit signum [illegible]
[illegible] [illegible] [illegible] [illegible]
nubes [illegible] [illegible] sit [illegible]
[illegible] [illegible] nubes [illegible]

Item autem dissolvit[illegible] [illegible] signum / Divisio cum sit [illegible] apparet [illegible]
quidem [illegible] [illegible] aut [illegible] Signum [illegible] [illegible] sit venti
[illegible] [illegible] sit dissensio [illegible] [illegible]
[illegible] halo vel [illegible] [illegible] [illegible] [illegible]
Venti [illegible] halo [illegible] a vento [illegible] [illegible]
[illegible] [illegible] [illegible] loco sit venti [illegible] loco sit
[illegible] dissensio vel [illegible] halo vel [illegible]
[illegible] [illegible] halo [illegible] sit [illegible] venti [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] a vento [illegible]
venti [illegible] [illegible] [illegible]

Manifesta autem sententia. Si enim non ponere aliqua sic aer ut obtinet intercepta caliginem neque venit in dispositionem aquosam, palam quod sic vapor segregatus est ab exhalatione sicca et ignea. Hoc autem pulchri temporis signum. Circa quid est littera

[illegible]

Refugitur ... [illegible]

[illegible]

Undique autem similiter ... circulum ... ab eodem signo ad illud signum equales fiunt super circuli lineam semper

[illegible]

visum [illegible] quod omnes [illegible] superior sit plana et equaliter distat a visu et [illegible] et
radius perpendicularis [illegible] ad visum qui est [illegible] nubibus [illegible] ad [illegible] [illegible]
[illegible] sit [illegible] declaratum in [illegible] 17a 16a [illegible] quod [illegible]
[illegible] ab eodem aspectu [illegible] radii perpendiculares [illegible] [illegible]
[illegible] ad visum [illegible] solum [illegible] transit per centrum nubis [illegible] eodem [illegible]
aspectu [illegible] a quo transit perpendicularis [illegible] visum [illegible]
[illegible] alii radii et perpendiculares [illegible] obliqui incidentes illi nubi [illegible] a [illegible]
nubes quibus incidunt [illegible] perpendicularem [illegible] ad visum [illegible]
[illegible] statim post [illegible] demonstrabitur [illegible] radiorum [illegible]
illi qui equaliter distat a perpendiculari equaliter [illegible] equales angulos [illegible]
ad visum [illegible] angulos obtusos maiores et equales [illegible] qui plus distat a
perpendiculari [illegible] angulos [illegible] [illegible] radii plus distat
a perpendiculari tanto [illegible] angulos [illegible] sicut demonstratum [illegible]
[illegible] concludi [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] plane [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] radii [illegible] a [illegible] ad [illegible] aspectu [illegible]
[illegible] angulos [illegible] reflectuntur ab eodem
[illegible] angulis ad visum [illegible] radii [illegible] in reflectione
[illegible] [illegible] [illegible] [illegible] difficultas [illegible]
[illegible] [illegible] reflexionis [illegible] quo a ad b fracta [illegible] radiorum
Sit enim a signum [illegible] a z b et que a d b fracta que a g b et que
a g a z [illegible] et que a d b [illegible] equales [illegible]
[illegible] a e b [illegible] equales et [illegible] puta g b z b d b et
a e b [illegible] ad a b e [illegible] angulis a g [illegible]
g e a z [illegible] z e a d [illegible] d e equales [illegible]
[illegible] triangulis [illegible] plano [illegible] ad [illegible]
a e b et ad unum signum e copulentur [illegible] go [illegible] descripta
centro [illegible] e [illegible] b [illegible] visus [illegible]
g z d [illegible] nubes a qua [illegible] visus ad solem [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] e z b [illegible] linea [illegible] [illegible] a [illegible]
a ad b [illegible] linea g e a z b [illegible] fracta a signo [illegible] que e
linea g e a d b [illegible] fracta a signo [illegible] a signo a ad signum b et
a d [illegible] equales [illegible] linee a g a z
e b z [illegible] equales et [illegible] puta [illegible] e b d
[illegible] a g b e a z b e a d b equales [illegible] linea [illegible]
[illegible] ad e [illegible] angulo [illegible] a e b [illegible]
angulo [illegible] quod a g
[illegible] a d angulo [illegible]
[illegible] plana [illegible] ad [illegible] linee [illegible] equales
e a e b e ad unum signum [illegible] descripta est circulus [illegible] centro [illegible]
circuli [illegible] b e [illegible] linea [illegible] g z d [illegible]
[illegible] nubis a qua [illegible] ad solem [illegible]
[illegible] appareat [illegible] radiorum [illegible] distat a perpendiculari [illegible]

Sol

equaliter refringuntur, sic quod puncta reflexionum erunt
in circumferentia circuli. Ideo probatur conclusio hec.
Demonstratio eius. Ponatur quod a sit centrum
corporis, et b sit centrum solis vel alterius astri,
et sit linea b d recta [illegible],
se habeat eadem distantia corporis a sole [illegible]
[illegible] et sit g z d ea puncta sig-
ta in superficie nubis equalis distantie a sole
et corpore. Deinde protrahatur radius corporalis
ab a usque ad g, et ibi refringatur vel reflectatur
usque ad b, sic quod totus radius fractus sit a
g b. Et eodem modo de puncto z ducatur radius
a z b, qui refringatur in z, et similiter producatur
radius a d b, qui frangatur in puncto d [illegible]
stante [illegible] radii a corpore
usque ad [illegible] a g, a z et a d
sunt [illegible] equales ex ypothesi [illegible]
[illegible] in circumferentia sic posita ista, ea puncta
g z d [illegible] eadem distantia corporis [illegible]
ypothesi [illegible] quod radii refracti a sole usque ad
predicta puncta [illegible] b g, b d et b z [illegible]
[illegible] equales. Deinde producatur linea [illegible]
[illegible] a corpore usque ad solem [illegible]
[illegible] et sit a e b [illegible]
[illegible] ista puncta refractionum
g z d existentia in eadem superficie plana nubis
equaliter distant a puncto e [illegible]
circuli [illegible] e [illegible]
[illegible] puncta [illegible]
to [illegible] due linee [illegible]
[illegible] puncto [illegible]
[illegible] isti [illegible] anguli
[illegible] a g b, a z b et a d b [illegible] equa-
les [illegible] duo latera [illegible]
[illegible] duobus lateribus alterius [illegible] basis
[illegible] a e b [illegible]
[illegible] anguli [illegible] lateribus
[illegible] equales [illegible]
[illegible] trianguli [illegible]
equales. Deinde producatur [illegible]

visus

[illegible] ab angulis triangulorum perpendiculares ad bases ductis [illegible] alterius
trianguli [illegible] g e, z e et d e [illegible] perpendiculares [illegible] a e b [illegible]
puncto e [illegible] linee [illegible] equales [illegible] in una superficie
plana, et ea puncta g z d existentia in eadem superficie plana equaliter distant a pun-
cto e, quia [illegible] tres linee [illegible] distancias [illegible] punctorum a pun-
cto e [illegible] linee [illegible] triangulorum [illegible]
latera [illegible] duobus lateribus alterius et anguli [illegible] lateribus [illegible]
les [illegible] equales [illegible]
[illegible] in eadem superficie plana [illegible] perpendiculares [illegible] linee
in eodem puncto [illegible] puncto e [illegible] in eodem plano
superficie [illegible] tres lineas [illegible]
[illegible] recta linea [illegible] ortogonaliter [illegible] tres

lucet in [illegible] [illegible] [illegible] | Et sicut [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] | Et [illegible] [illegible] [illegible] [illegible] [illegible]

Oportet autem intelligere quod [illegible] columna specula [illegible] propter puritatem visui omnibus unum et idem [illegible] propter densitatem [illegible] [illegible] autem [illegible]

[illegible] apparet in halo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] halo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] nubis [illegible] radios [illegible] speculorum [illegible] propter [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] talis [illegible] [illegible] in [illegible] halo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] color solis vel lune vel alterius astri [illegible] solis figura || album [illegible] sol [illegible]

Apparet autem ex quibus: apparuit et nullam habens speculum divisionem, ipsius etiam autem magis quia tranquillius est [illegible] [illegible] [illegible] est statio maxima. Juxta autem hoc [illegible] habita pyxia propter albus [illegible] visa est nigrior [illegible] [illegible] [illegible] [illegible] [illegible] in halo [illegible] lune solis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] album [illegible] halo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] halo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] color [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] color [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] album [illegible] [illegible] [illegible] [illegible] [illegible] color [illegible] [illegible] [illegible] halo [illegible] [illegible] [illegible] halo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Sepius autem fiunt halo circa lunam, quia sol calidior existens

Circulus dissolvitur consistente aere [illegible] circa autem astra fiunt quidem
propter easdem causas; non significat autem similiter, quia plures perimit [illegible]
[illegible]

Virgis autem quid est, reflexio dein [illegible] coruscalis; quidem
[illegible] et quo est propter quam causam singula fiunt [illegible] et ipsarum
causa [illegible]

[illegible]

Refractus quidem visus ab omnibus: est aqua et aer [illegible]

[illegible]

Fit autem ab aere quidem cum steterit consistens propter visus autem
debilitatem [illegible] coruscalis [illegible]
accidit cuidam passio debilis et non acute videnti. Semper
eum idolum videbatur precedere ambulanti [illegible] oppositum inspiciens

ad ipsum. Hoc enim patiebatur quia visus refrangebatur ad ipsum. Dicendum
debilis erat et tenuis valde ab infirmitate et speculum fiebat et propinquus
aer. Et non posset repellere sicut qui longe et spissus [illegible] declarat
[illegible] [illegible] causa quod fiat reflexio ab aere [illegible] quia ab aqua [illegible] ab aqua
[illegible] [illegible] [illegible] declarat [illegible] declarat [illegible]
quando [illegible] Sed reflexio visus fit ab aere cum aer fuerit congregatus [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] debilis et [illegible] [illegible] [illegible]
[illegible] [illegible] debilis videntis [illegible] acutus [illegible] ipsum ambulante [illegible] videbatur [illegible]
[illegible] [illegible] ad ipsum [illegible] iste patiebatur quia visus reflectebatur ad ipsum
quia visus eius erat sic debilis et valde tenuis propter infirmitatem [illegible] aer propinquus [illegible]
speculum [illegible] aer qui longe distat a visu [illegible] [illegible] [illegible] speculum [illegible]
videnti [illegible] iste visus fuit ita debilis ut non posset repellere aerem propinquum
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] visualis [illegible]
[illegible] ab aere [illegible] [illegible] aer [illegible] congregatus [illegible] [illegible] [illegible] [illegible] [illegible]
debilis [illegible] lumine oculi [illegible] debilitate refrangitur [illegible] ab aere [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] non [illegible] [illegible] modum reflexionis declarat [illegible] [illegible] quod [illegible]
[illegible] [illegible] Antiphonti [illegible] visu debilem [illegible] quocumque ambulat videbatur [illegible]
[illegible] [illegible] ipsum [illegible] [illegible] [illegible] apparet [illegible] [illegible] [illegible] reflectitur [illegible]
[illegible] [illegible] et [illegible] fuit [illegible] quia visus eius erat debilis propter infirmitatem [illegible]
[illegible] fortitudinis [illegible] aerem propinquum [illegible] reflectebatur ad ipsum [illegible] [illegible] aere
[illegible] [illegible] [illegible] visus [illegible] [illegible] organum [illegible] reflectitur [illegible] ab aere longe
distante [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] quod visus fiat [illegible] [illegible] [illegible] radiorum visualium ab oculis [illegible]
[illegible] aquosus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] fit reflexio [illegible] [illegible] ad oculum [illegible] oculus [illegible] [illegible] [illegible] [illegible]
radiorum ab oculis [illegible] ad [illegible] [illegible] videtur [illegible] ita non [illegible] [illegible] radiorum
ab oculis [illegible] [illegible] quod radii [illegible] a re visa ad oculum [illegible] [illegible]
visiva [illegible] lumine oculi [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible]
[illegible] [illegible] quod [illegible] [illegible] [illegible] [illegible] in aquo videtur [illegible] [illegible] [illegible]
[illegible] videtur [illegible] [illegible] [illegible] et reflexio visus et ita [illegible] quod non apparent
oculo forti [illegible] [illegible] apparet oculo debili et [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] quod visus refrangebatur ab aquo [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] oculi vel ab aere propinquo congregato [illegible] [illegible] [illegible] ab oculis
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] visus reflecti vel refringi
[illegible] [illegible] oculi vel radios visuales [illegible] [illegible] [illegible] visualem reflecti
vel refringi. Quod et similes efficit omnia in aere et maiores

Et quod magnitudines autem stellarum autem flammis et que in
caliginibus velut et sol et astra orientia et occidentia [illegible] magis
quam in medio celi apparentia. [illegible] declarat [illegible] [illegible] reflexione
ab aere [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
vel [illegible] [illegible] [illegible] longitudine vel [illegible] latitudine [illegible] [illegible]
[illegible] magnitudinis [illegible] [illegible] [illegible] flammis [illegible] [illegible] [illegible] [illegible]
magnitudine quod [illegible] per vapores obscuros et [illegible] sol et astra
et occidentia [illegible] magis [illegible] quam in medio celi [illegible] [illegible]
[illegible] [illegible] [illegible] vel [illegible] vel [illegible] [illegible] [illegible] [illegible] [illegible]
medio apparet [illegible] [illegible] longitudinis [illegible] latitudinis [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] aerem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] per radios [illegible] [illegible]
[illegible] quod [illegible] [illegible] [illegible] [illegible] magnitudinis [illegible] [illegible] apparet [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aerem
[illegible] [illegible] videtur [illegible] [illegible] [illegible] [illegible] [illegible] angulo [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] non quod [illegible] [illegible] [illegible] [illegible] quod apparet [illegible]

[illegible] obscurio [illegible] in ortu vel occasu [illegible]
[illegible]
[illegible]
[illegible] in occasu [illegible] Imaginem refringent ab inspiciente si magis

Ab aqua autem: adhuc quam ab aere [illegible]
fit constantibus vaporibus speculum [illegible] et magis caligine [illegible]
[illegible] ab aqua [illegible]
[illegible] ab aqua [illegible] a caligine [illegible]
[illegible]
[illegible]
[illegible] de aqua
[illegible]
[illegible] in aqua [illegible]
[illegible]
[illegible] in aqua [illegible]
[illegible]
[illegible]
de aqua [illegible] aut est manens et densa [illegible] in talibus speculis
terminatur: color enim apparet. Figura aut non [illegible]
Sol plue [illegible] et iam cum constat in vaporibus [illegible] nubibus aer [illegible]
dum aut colorat [illegible] appositum [illegible] aliud sit fulgidum [illegible]
et fiat speculum nubes [illegible] et visionem [illegible] ad fulgidum ex opposito [illegible]
emphasim coloris non figure [illegible] speculorum [illegible]
et indivisibilium [illegible] estimatur magnitudo
visa [illegible] estimata magnitudine [illegible] apparere colorem [illegible]
[illegible] speculorum [illegible] reddit colorem [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] in aqua [illegible]
[illegible]
[illegible]

reflexionem radiorum visualium a talibus partibus nubis tamquam a speculis ad solem vel ad aliud corpus splendidum [illegible] [illegible] quia [illegible] per reflexionem radios [illegible] tamquam speculum
ibi solis [illegible] apparet species solis vel alterius corporis fulgidi [illegible]
[illegible] colores distincti [illegible] color apparet [illegible] continua
[illegible] specularum apparet [illegible] propter [illegible]
[illegible] vel [illegible] vel [illegible] color [illegible] apparet [illegible]
[illegible] apparet color [illegible] sub [illegible] continue [illegible]
[illegible] apparitionem [illegible] reflexionem visus a nube ad corpus splendidum [illegible]
[illegible] per reflexionem radiorum [illegible] a nube ad visum. Habet hoc modo.
Quare autem hoc contingat accidere, dictum est prius: sol et nubes
et nos sumus in medio [illegible] propter refractionem emphasis [illegible]
[illegible] videtur [illegible] et non aliter [illegible] iris [illegible]
[illegible] apparitionem [illegible] colores [illegible]
[illegible] sol [illegible] nubes [illegible] nos [illegible] in medio [illegible]
[illegible] apparet color propter reflexionem radiorum [illegible] accidere [illegible]
[illegible] aliter [illegible] videtur [illegible]
[illegible] quia [illegible] solis [illegible] nubis [illegible]
[illegible] nos [illegible] corporis [illegible] color [illegible]
[illegible] propter reflexionem radiorum [illegible] apparet [illegible] colores [illegible]
[illegible] nubis [illegible] aliter [illegible] solis
[illegible] sol et nubes [illegible] ita [illegible] sol [illegible]
nubes [illegible] apparet iris [illegible] terra vel
[illegible] aque [illegible] radius [illegible] nubi
[illegible] quod iris sit reflexio visus ad solem [illegible]
et ex opposito semper fit halo autem est circa [illegible] nubes re-
fractio [illegible] halo [illegible]
[illegible] reddet causas quorum [illegible]
[illegible] colore [illegible] ad halo [illegible]
[illegible] aliis coloribus [illegible] aut color [illegible]
[illegible] halo [illegible] ponit [illegible]
[illegible] halo [illegible]
[illegible] ad solem [illegible] solis [illegible] halo fit [illegible]
[illegible] halo [illegible]
[illegible] iris et halo [illegible] reflexiones [illegible]
[illegible] solis [illegible] fit [illegible] sole [illegible] apparet [illegible]
[illegible] halo [illegible]
Sed hoc quidem colore variatur fit [illegible] et delongatur [illegible] quidem ab aqua et nigro
aut [illegible] et ab albiore secundum naturam apparet aut fulgidum
per nigrum aut in nigro puniceum [illegible] a puniceo
viride aut [illegible] liquore ignis, quia rubea est flamma
[illegible] fumo [illegible] ignis fulgidus [illegible] est albus
et per caliginem et fumum sol apparet puniceus [illegible] viridis
quidem reflexio [illegible] colorem [illegible]
[illegible] fit reflexio quae est circa halo. [illegible] de aliis autem co-
loribus posterius dicemus [illegible] halo est

[illegible] declarat [illegible] colores [illegible] videntur [illegible] colores puniceo
Et dum in duas partes [illegible] declarat duplici [illegible]
aut [illegible] declarat [illegible] ibi unde aut
[illegible] refractio [illegible] halo [illegible] colores [illegible] refractio
fit ab aqua et [illegible] et [illegible] de longe [illegible] refractio halo fit de [illegible]
ad claudi [illegible] puniceo [illegible] aqua
et [illegible] a puniceo [illegible] ubi [illegible]
[illegible] flama [illegible] ignis [illegible] et [illegible]
[illegible] fumo et sol [illegible] puniceo [illegible] fumo [illegible]
refractio [illegible] halo [illegible] colorum puniceum [illegible] refractio fit a [illegible]
guttis [illegible] refractio [illegible] halo [illegible] colorem [illegible] dictis [illegible]
de aliis coloribus [illegible] halo [illegible]
[illegible] colore [illegible] refractio [illegible] colore [illegible] fit ab
aqua vel ab [illegible] obscuro [illegible] a [illegible]
aut fit a vapore subtili [illegible] colores [illegible] aqua [illegible]
[illegible] halo [illegible] apparet
[illegible] puniceum [illegible] videtur
[illegible] album [illegible]
[illegible] refractio [illegible] fit ab aqua [illegible]
aut [illegible] halo fit [illegible] celestis [illegible]
[illegible] declarat per [illegible]
[illegible] puniceo [illegible] declarat [illegible]
[illegible] fumo [illegible]
in flama rubea [illegible] colorem puniceo [illegible]
[illegible] vapore [illegible] fumo [illegible] puniceo [illegible]
[illegible] applicat ad [illegible] refractio [illegible]
colorem puniceum [illegible] a [illegible] guttis aquosis [illegible] obscuris [illegible]
[illegible] halo [illegible] colorem [illegible] fit a vapore [illegible] subtilior [illegible]
[illegible] color puniceus apparet [illegible] de aliis coloribus [illegible] dicendum

Adhuc autem et ipsum quidem colorem non fit modo tali consistere
[illegible] a plurimo dissolutum ergo apparitio [illegible] continue
ad fit quod [illegible] fiet et utique color [illegible] halo
sicut yris [illegible] autem [illegible] quidem non fiunt [illegible] continua
[illegible] varia [illegible] que [illegible]
si constaret talis [illegible] fiet utique ab aqua [illegible] aquo [illegible]
[illegible] sicut dicimus apparet utique yris [illegible] sicut [illegible] et lucernas
[illegible] declarat [illegible] declarat
[illegible] declarat [illegible] apparentes [illegible]
[illegible]
[illegible] colorem [illegible] fit [illegible]
[illegible] dissolutum [illegible]
[illegible] fit quod [illegible] sole [illegible] halo
[illegible] colores [illegible] apparet [illegible] colorem [illegible]
[illegible]
[illegible]
[illegible] fiat ab aqua [illegible] ab aquo [illegible]
et puniceum [illegible] sole [illegible] apparet [illegible]

[illegible]

Circa has cum stellis plurima australibus ventibus yris in hieme aut maxime fit humidos habentibus oculos; horum enim visus cito propter debilitatem refrangitur. Fit autem et ab humiditate aeris et ab evaporatione a flamma defluente et mixta. Tunc enim fit speculum, et propter nigredinem; fumosa enim evaporatio illa. Lucernae enim lumen non album sed purpureum apparet circulo et yriale, puniceum autem non; est enim visus etiam paucus et refrangitur et niger speculum.

[illegible]

est rubedo cla[ra] [illegible] aut e rubedo magis obscura / magis [illegible] ad mag[is] [illegible]
quod ad claritatem [illegible] yris [illegible] colorem [illegible] yris aut que
[illegible] colorem [illegible] colorem [illegible]
Fit aut a remis sursum elata ~~et~~ [illegible] luchnas [illegible]
a mari yris positione quidem eadem fit [illegible] ei que in celo colore
aut similior ei que circa luchnas [illegible] puniceum sed [illegible]
[illegible] colorem. Refertis aut a pinnissimis quidem guttis fit
gutt[is] [illegible] aut aqua segregata sunt penitus [illegible]
[illegible] appetentes [illegible] ad [illegible] et [illegible] fit
aut [illegible] yris [illegible] fit a remis [illegible] aqua [illegible] fit
[illegible] et yridi [illegible] colore [illegible]
ei yridi [illegible] luchnas [illegible] colorem puniceum [illegible]
Sed [illegible] fit a [illegible] guttis [illegible] gutte [illegible]
[illegible] aqua [illegible] in aqua [illegible] remis.
[illegible] remos [illegible] aqua [illegible] guttas [illegible]
[illegible] sol [illegible] radii [illegible]
[illegible] a talibus guttis [illegible] yris [illegible]
[illegible] apparet soli [illegible]
[illegible] in celo [illegible] plus [illegible]
[illegible] sol [illegible] in [illegible]
[illegible] guttule [illegible] soli [illegible] Sed
in colore plus [illegible] colorem [illegible] et [illegible]
[illegible] et [illegible] fit ab aqua [illegible] a [illegible]
gutt[is] aqueis [illegible] aqua [illegible] fit [illegible]
in [illegible] subtilibus radiationibus [illegible] in aqua [illegible]
Fit aut et si quis irrigaverit locum qui ponitur ad solem [illegible] fit.
et hactenus illustratur [illegible] hac aut umbra fit [illegible] in tali enim sicut
[illegible] stati [illegible] radii et faciunt umbram apparere
yridem [illegible] aut [illegible] colores singulos et eadem causa ei que a re-
mis [illegible] in remis [illegible] ap-
[illegible] yridis [illegible] fit [illegible] subtilibus [illegible] aquarum [illegible]
guttulas [illegible] in aqua [illegible] fit [illegible] ad solem [illegible]
et [illegible] sol illustrat [illegible] fit [illegible]
[illegible] radii [illegible]
[illegible] et [illegible] appareat yridem [illegible] colores [illegible]
[illegible] et yridi [illegible] fit a remis [illegible] est [illegible]
guttulas [illegible] in remis [illegible] fit [illegible]
[illegible] guttulas aquarum [illegible]
[illegible] aque [illegible] soli [illegible] guttulas
[illegible] guttule
[illegible] loco [illegible] radii [illegible] illustra-
[illegible] guttule [illegible] loci [illegible]
[illegible] apparere yridem [illegible] et
et colores [illegible] yridi [illegible] aquarum [illegible] remis [illegible]
[illegible] guttarum [illegible] a [illegible] ve[l] [illegible] ip[s]i [illegible]
[illegible] Aliorum aute colorum talis similiter palam est et de aliorum co-
Prima: [illegible] fantasia [illegible]
colorum [illegible] aliorum co-
[illegible] oportet [illegible]

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[illegible] color de quo iam dictum est [illegible] iam dictum est [illegible] eclipsis et [illegible]
[illegible] aliorum colorum [illegible] sicud [illegible] color [illegible] apparet
[illegible] aliorum [illegible] manifestabitur [illegible]
aliorum colorum [illegible] intelligendum sicut dictum est et apparet [illegible]

Oportet enim; quia fulgidum in nigro aut per nigrum colorem facit puniceum [illegible] aut quia visus protensus debilior fit et minor [illegible] quia nigrum velut negacio est; in deficiendo enim visum apparet nigrum; propter quod que longe omnia nigriora apparent propterea quod non pertingit visus. Considerare ergo hec ex hiis que circa sensus accidunt [illegible] illorum enim proprium de hiis sermo [illegible] nunc autem tantum quantum necesse de ipsis dicamus [illegible]

[illegible]

Propter hanc causam et que longe nigriora et minora et planiora et que in speculis et nubes nigriores apparent aspicientibus in aquam quam in ipsas nubes et hoc valde visibile propter refraccionem enim paucum visum aspicere. Differt autem nichil quod videtur permutari visu vel ipsum cum non est idem [illegible]

[illegible] que longe [illegible] apparet nigriora et minora et planiora [illegible] et nubes apparet nigriores

[illegible]

Adhuc autem ex non facte et hoc facit in ... per solem
in speculum inspicienti nichil apparere coloratum ... album in
aquam ad hac eandem intuenti colorem habere aque ...

[illegible] appet obscura

[illegible] ... nigre fetus ... ingruens
palam ... visus sicut et facit apparere album nigrum album et ad
... ad nigrum

[illegible]

Puni quidem fortior in primum colorem per: aut in ... videm
aut adhuc debilior in alurgum

[illegible]

[illegible] qui [illegible] illo [illegible] colorum [illegible]
[illegible] in [illegible]

putei [illegible] in [illegible] [illegible]

[illegible]

[illegible] color viridis [illegible] qui plus [illegible] est a claritate [illegible]

[illegible] color plus a claritate [illegible]

[illegible] quod plus iam non apparet sed in [illegible] sicut et [illegible]
pluma et [illegible] habuerunt [illegible] aliter [illegible] [illegible]
[illegible] colorum viridis [illegible] quia [illegible] plus [illegible]
coloribus viridis [illegible] color viridis [illegible] et
pluma [illegible]

9o 12 [illegible] colores [illegible] apparentes in [illegible] colores
[illegible]

[illegible]

[illegible] et viridis color apparet: quod [illegible] puniceum [illegible]
[illegible] pluvia [illegible] pluvia incidit visus ad solem [illegible]
iam aut [illegible] et 3a [illegible] [illegible] [illegible] coloris
fantasia [illegible] fit [illegible] et [illegible] et [illegible] coloribus
[illegible] color viridis [illegible]

[illegible] apparet [illegible] color [illegible]

9o 13 [illegible]

[illegible]

[illegible] refrangitur [illegible] ad latus [illegible] viridem [illegible]
[illegible] colorem puniceum [illegible]
[illegible] ibi [illegible] alios colores [illegible]
[illegible] viride [illegible] Propter secus dicta apparet puniceum autem

Miscet autem apparet : nunc puniceum album iuxta [illegible] color [illegible]

[illegible]

Signum autem huius in nigrina [illegible] sit [illegible]
magis puniceum [illegible] quam puniceum est aut [illegible] in viride
color [illegible] puniceum et [illegible] colorem [illegible]
in [illegible] nubis [illegible] apparet [illegible] puniceum album [illegible]

[illegible]

[illegible] viride [illegible] solem puniceum

Adhuc manifestum : nubes cum alba [illegible] adiuncta solis [illegible]
puniceum [illegible] manifeste viride [illegible]

[illegible]

[illegible] alba
carbonem autem flammam [illegible] que alia : valde [illegible] sit autem hoc

quia in nube obscura opposite apparet et in nocte. Sicut et ignis
super ignem et nigrum ad nigrum facit debile album penitus
apparere album. hoc autem est quia primum [illegible]
[illegible]

Fit autem hoc passio maxime et in floribus in textis enim et
variatis valde differt secundum fantasiam aliis secus alios positi
colores velut purpurei in albis et nigris lanis. Sunt
autem ipsa talia vel tales, propterea variatores aiunt peccare sepius
ad lucernam sepe et flores et decipi accipientes alios pro aliis [illegible]
quando et talior est quae [illegible] aut coloribus solum [illegible]
[illegible]

[illegible] Semper coloribus quae ambiens in portione
Dupla autem est et ob: colores qui opposito secundum portionem ipse eandem causam
[illegible]

Longius enim extensus visus facit quod longius videtur et eadem [illegible]
eadem vero debilior ergo ab [illegible] refractio sit quia a luminosi
sit refractio. Quare videntur incidens colores facit obscuriores apparere
[illegible]

[illegible]

Et econtrario quia amplior a medio et minor ad plenius [illegible]

[illegible] visui [illegible] refringitur a pyramide propinquissima [illegible]

videtur propinquissima autem in exteriori iride [illegible] pyramide. Quare

hec habebit colorem puniceum [illegible] autem [illegible] proportionem [illegible]

[illegible] in quo b [illegible] in quo a [illegible] colores autem viridis [illegible]

e d [illegible] alurgus in quo e [illegible]

[illegible]

Alurgus

viridis

puniceus

puniceus

iris exterior

b

e d g

g d e

a

puniceus

viridis

alurgus

iris interior

g d e

e d g

a Celus

n nubes

h aspiciens

k punctum

Tres autem vel adhuc fiunt nec plures videntur quia secunda fit obscurior ut et tertia refractio valde et impotens fit pertingere ad solem

[illegible]

Circulus autem neque totus possibile est fieri semicirculo vero maior nequaquam, et de aliis accidentibus circa ipsam ex descriptione erit considerantibus manifestum

[illegible]

Emisperio enim existente super orizonte in quo A centro ... circulo ... signis in quo H ... ab linea ... seducentes faciat velut ... in qua H K et ab A ad M adiungatae refractae ... emisperio ab H ad H sub maiorem angulum ad circuli periferiam incidentes ...

[illegible]

emisperium per orizontem quod est nobis visibile et sit a. c. [illegible] circulo emisperii [illegible] quod sit b. [illegible] circuli orizontis [illegible] emisperium et [illegible] tactu orizontis [illegible] per orizontem [illegible] emisperium [illegible] circulus vel semicirculus emisperii [illegible] per orizontem [illegible] semicirculi [illegible] orizontis [illegible] infiniti alii [illegible] dyametri [illegible] orizontis [illegible] in solido [illegible] depingi possit in plano [illegible] a puncto [illegible] linee [illegible] circulos emisperii [illegible]

[illegible]

[illegible]

[illegible]

Et [illegible] in orizonte [illegible] circulus ab orizonte [illegible] super [illegible] semicirculo [illegible]

[illegible]

3 9 8

[illegible]

Sit in oriente punctum h. et recta sit k m. ad h. et planum circuli sit in quo a quod a regione in quo h k m [illegible] agitur decisio est porcioni maiori sit in quo [illegible] Dico cum nichil secundum quemcumque eorum que super h k. secundum tra[illegible] [illegible] k m h. circulum sint planum [illegible]

[illegible]

Sentencia [illegible]

[illegible]

[illegible] linee in hac [illegible] non con[illegible] ad aliud et ad aliud signum [illegible]

[illegible]

h r et [illegible] [illegible] [illegible] h a ergo est longior [illegible] per [illegible] euclidis
et [illegible] [illegible] [illegible] et [illegible] eadem [illegible] [illegible] [illegible] duo triangula scilicet
h k m et h k r et duo latera [illegible] scilicet h k et k m [illegible] equalia duobus
lateribus alterius scilicet h k et k r et angulus h k r est [illegible] angulo h k m [illegible]
angulus h k r [illegible] totus angulus [illegible] h k m [illegible] ergo basis h r [illegible]
si h m [illegible] per [illegible] primi euclidis [illegible] cum duorum angulorum quorumlibet
latera [illegible] duobus lateribus alterius fuerint equalia [illegible] angulorum [illegible] illis equis la-
teribus [illegible] alter altero maior [illegible] basis [illegible] basi alterius [illegible]

[illegible] que k h signa data sit et que k m data utique
[illegible] que m h [illegible] et [illegible] eius [illegible] a h [illegible] a k [illegible] super
[illegible] et que m h [illegible] [illegible] [illegible] m [illegible] in qua n m
data [illegible] speram tangentem a [illegible] [illegible]
[illegible] [illegible] spere data est amplius aliam aut [illegible]
[illegible] que a n [illegible] speram ab eisdem signis [illegible] in eodem
plano non consistens [illegible] [illegible] [illegible] [illegible]
puncta k h [illegible] data [illegible] data est linea que est
[illegible] a h [illegible] [illegible] data ergo
[illegible] a [illegible] a h [illegible] [illegible] est [illegible] spera [illegible] a m [illegible]
k a tangit a [illegible] super data speram [illegible] spera [illegible]
[illegible] spere [illegible] [illegible] linealis [illegible] ab [illegible]
[illegible] plano [illegible] speram [illegible] a m
[illegible] [illegible] tanli [illegible] a m est [illegible]
[illegible] puncta [illegible] [illegible]
[illegible] puncta h [illegible] data
[illegible] linea k m est data [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] puncta
[illegible] data [illegible] h k linea [illegible] data [illegible] libri de datis [illegible]
[illegible] linea h k [illegible] data est linea k m est data [illegible]
[illegible] tangentem ad [illegible] a [illegible] linea k m [illegible] data
[illegible] linea h a est data [illegible] linea k m [illegible] data [illegible] puncta a
[illegible] data [illegible] puncta h [illegible] data ergo [illegible] h [illegible] a est
data [illegible] linea h a est data ergo [illegible] h [illegible] data ergo
linea k m est data et linea h m est data [illegible] [illegible]
[illegible] linea k m est data [illegible] linea h m est data ergo
[illegible] h m [illegible] k m [illegible] data [illegible] datarum [illegible] [illegible] ad
[illegible] data [illegible] libri de datis [illegible] [illegible]
[illegible] a k m [illegible] h m tangit speram [illegible] [illegible]
[illegible] speram data [illegible] speram a [illegible] puncto scilicet a [illegible]
[illegible] [illegible] equus est [illegible] h a ad k a ergo
[illegible] ad [illegible] spere [illegible] [illegible]
[illegible] spere a [illegible] et [illegible] puncto spere a [illegible]
[illegible] spera alterius [illegible] ergo linea k m
[illegible] h m tangit speram [illegible] spera [illegible]
[illegible] spere [illegible] data [illegible] puncto [illegible]
[illegible] angulus h k a [illegible] obtusus ergo spera a m [illegible] speram [illegible]
equalia [illegible] ab eo [illegible] [illegible]
a n est spera [illegible] qua sit a [illegible]
[illegible] a m [illegible] linee [illegible] puncti h [illegible] k in eadem
[illegible] plana [illegible] a ad [illegible] speram [illegible] speram a [illegible]
[illegible] h a [illegible] k m [illegible] a puncto h
et k [illegible] eodem [illegible] a [illegible] due linee ad aliud punctum a puncto

m. [illegible] proveniens [illegible] a k m. [illegible]
[illegible]

Exponatur igitur quedam linea que d. b. et describatur ut m h ad m k eque d. ad b. Amor aut eque m h et est k m [illegible] sup maioris angulis [illegible] sub maiori cui angulo subtendi eius qui m k h [illegible] adiunctione [illegible] ad eam que [illegible] b in eque [illegible] sit [illegible] z d. ad b. que b z. ad d. [illegible] [illegible] z ad k h eque ad aliam fiat eque k p. et a p. ad m. copuletur que m. p. [illegible]

[illegible]

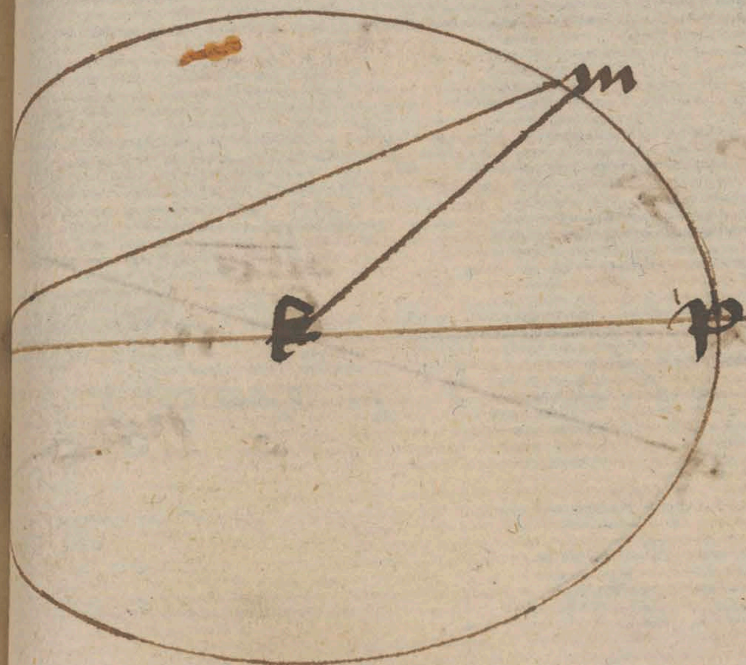
Sma [illegible]

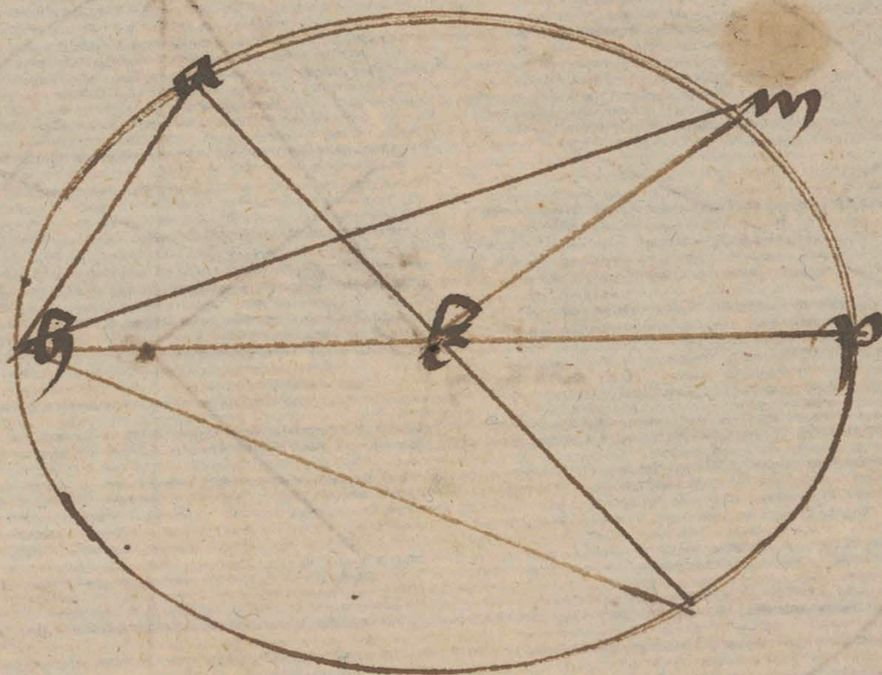
[illegible]

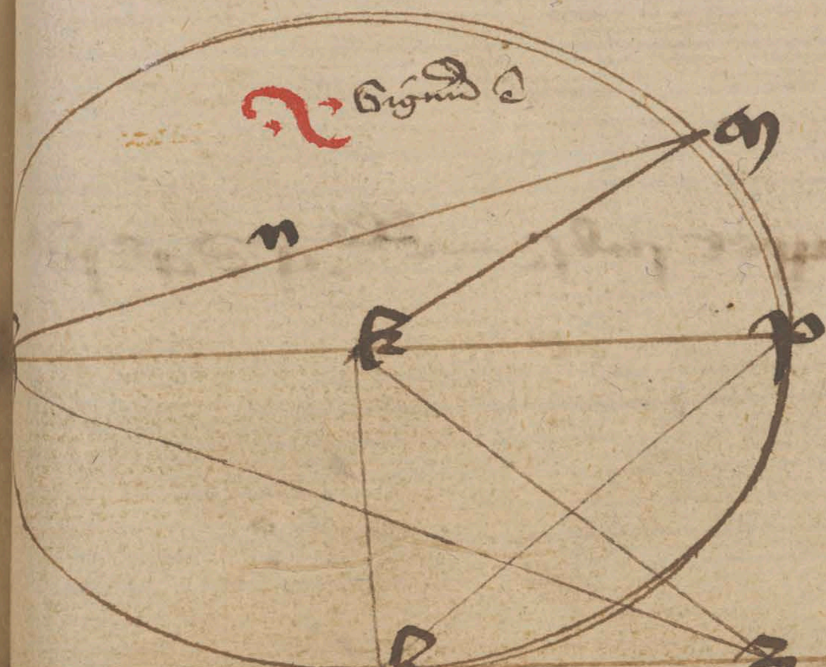
[illegible] linee ad que eque a k linee incidunt
Erit igitur p po: et m. [illegible] que z ad k h eque b ad k p et que d. ad p. m [illegible]

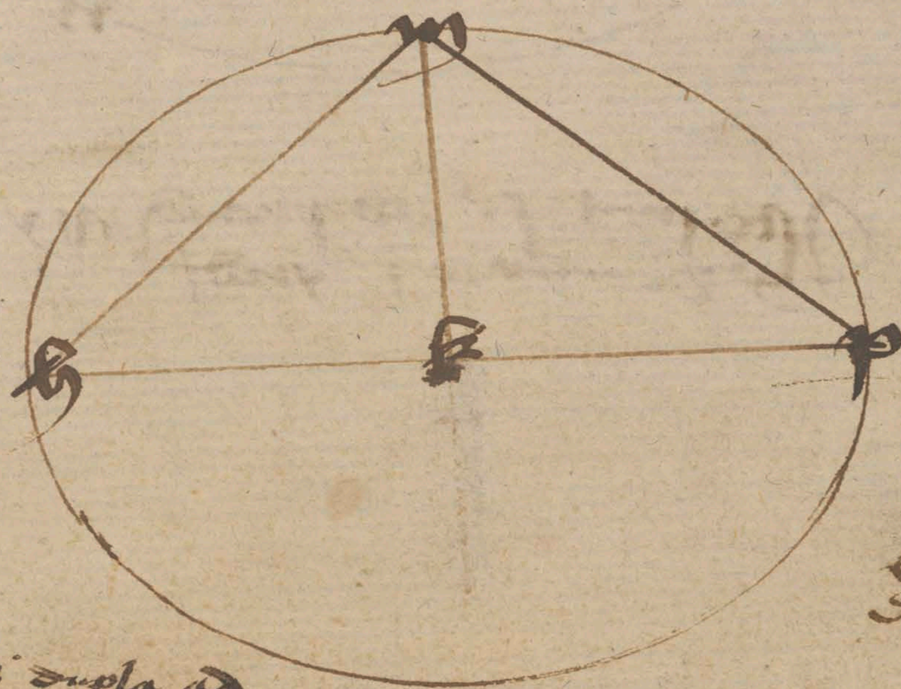
[illegible]

109a



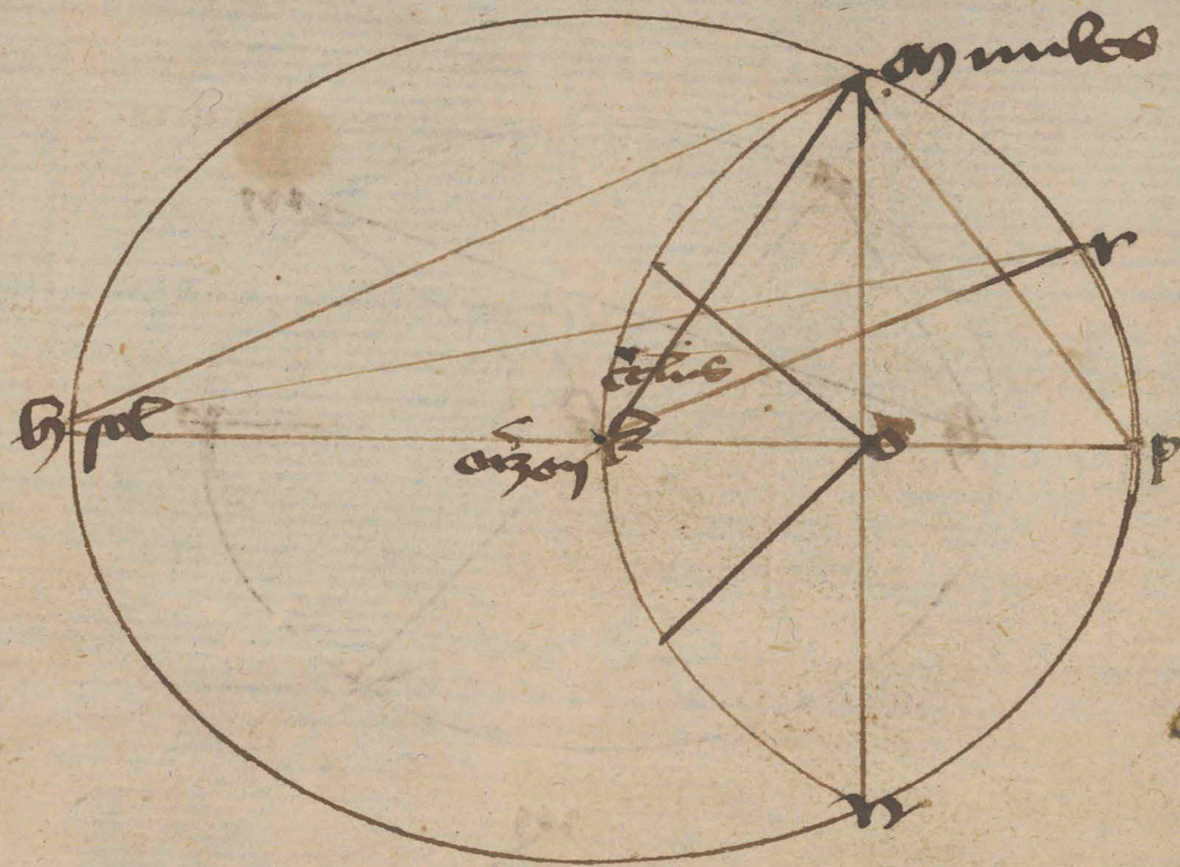


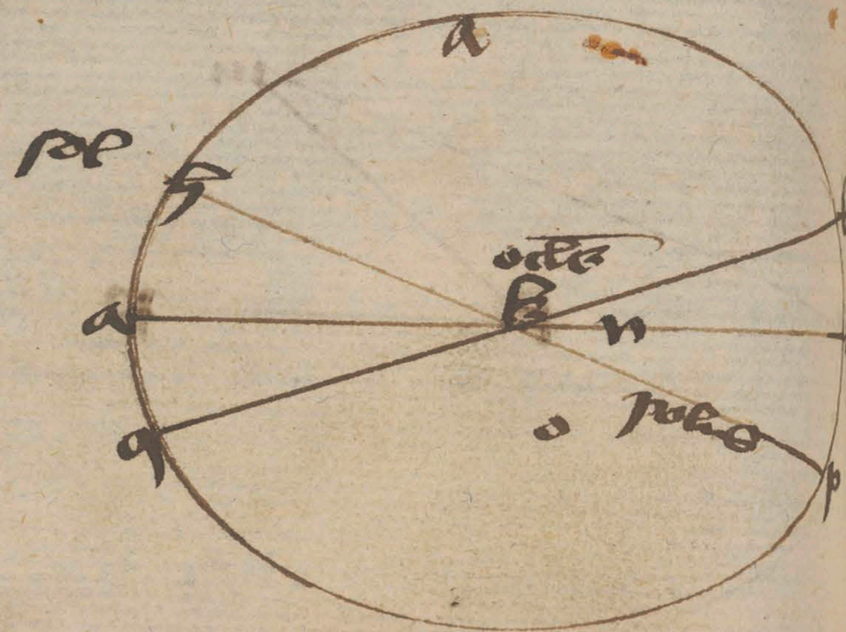




Linea e d erit
b k b minor
b z ita continet
d super d b

...ad e sit dupla ad lineam z b. / Quod linea b z sit etiam ipsius dupla ad
...d.





Iste punct fc ad pbandu q yris stelle appet sub semidiāo . q d q e p
h' denominatur yridis

~~[illegible] linea b ad k p ita linea d ad lineam p [illegible]~~

[illegible] linea z ad [illegible] h ad k p ita [illegible] linea d ad lineam p [illegible]

[illegible]

Non enim fit sed aut ad minorem aut ad maiorem ea que p m. [illegible] ad p r [illegible] assumptum [illegible]

[illegible]

[illegible] et p k et p r adinuicem habuit

Eandem ergo rationem habent: quia quidem que d b z que a d b z proportio [illegible] secundum quod que d ad b que z b ad d [illegible] que p h ad p r que p r ad [illegible] que p k [illegible]

[illegible]

[illegible]

Si igitur ab hiis que sunt h. ad r quinque copulate eandem habent
rationem eandem quam que hp ad eam que pr. et eadem cum aliquid
sit proportionabilitas et que tangit h p r. et omnes que k
r p c equales et q hr ad eam que kr eandem rationem habent
et que h p. ad eam que p r habent autem et que a h. ad k a
habent rationem equalem eam que d. ad eam est b ... equales ab
h. k et sicut nos solum ad eam que a n. proportionem generat eandem
habentes rationem [illegible] et alibi ad quod impossibile est

[illegible]

Nota

[illegible]

[illegible] [illegible] ... quia a puncto [illegible]
[illegible] lineae [illegible] ad [illegible] ... [illegible] in semicirculo a [illegible]
[illegible] proportionem quam [illegible] lineae [illegible] ab eodem puncto ad [illegible]
[illegible] ... [illegible] et [illegible]
[illegible] necesse ad minus eo quod [illegible] necesse ad ma- 2
iorem ergo [illegible] omnis circulus demonstrabitur palam quod ad
ipsam necesse est [illegible] in qua [illegible] ... [illegible]
[illegible] linea [illegible] ... [illegible] proportionem [illegible]
[illegible] ... [illegible] et [illegible] in [illegible] proportionem
ad [illegible] linea [illegible] ... [illegible] linea 4
[illegible] proportionem ad lineam [illegible] ... [illegible] ad [illegible] et [illegible]
[illegible] ... [illegible] proportionem ad lineam [illegible]
[illegible] est [illegible] quod [illegible] ... [illegible] ad [illegible]
[illegible] ... [illegible]
[illegible] ... linea [illegible] ad [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible] a puncto [illegible]
[illegible] ... [illegible] semicirculo [illegible]
[illegible] ... [illegible] a [illegible]
[illegible] ... [illegible] semicirculo [illegible] ab eodem puncto [illegible]
[illegible] ... [illegible] lineae [illegible]
[illegible] ... [illegible] proportionem [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible] semicirculo [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible] linea [illegible]
Et sicut [illegible] lineis [illegible] a puncto [illegible] puncta in [illegible]
[illegible] semicirculo [illegible] ... [illegible] lineis [illegible] a pun-
cto [illegible] ... [illegible] secundum [illegible]
[illegible] a puncto [illegible] ... linea [illegible] a puncto [illegible] secundum
[illegible] ... [illegible] omnes [illegible] polo [illegible]
circuli [illegible] ... [illegible] lineae [illegible] ... [illegible] eo quod polus circuli
a puncto [illegible] ... [illegible] lineae [illegible] ... [illegible] circuli
[illegible] ad lineam [illegible] ... [illegible]
Si igitur eo in quo ex polo necesse distantia, aut ea in qua cir-
culus secabit, omnes attingit angulos quos describit, quae
ab eis a circulo. Si autem non similiter [illegible] eandem lineas [illegible]
quae alibi et alibi semicirculi concurrerent, et quod est impossibile.
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]
[illegible] ... [illegible]

quo etiam [illegible] quibus circulus [illegible] i[ste] circumducatur.
Si ab sit [illegible] puncto [illegible] polo [illegible] Primo [illegible]

[illegible]

Si iste circumducatur semicirculus in quo a i qua e h k p que a d h k descripti in quo m in omnibus planis similiter habebit et equalem faciunt angulum cum h p et m p super eam que h p semper equalis erit triangulo. ergo super eam q h p et k p equales que q h m p e k m p constituti. Si hore aut equatori ad [illegible] segmentum cadet cuius h p et equales erunt cadat ad o circulo [illegible] circuli a semicirculo aut qui est m u abscissi a b orizonte

[illegible]

[illegible] ... equilateris ... et similiter omnibus ... [illegible]
... basis ... laterum ... [illegible] ... anguli ... [illegible]
... angulis ... et basis ... tanguli ... [illegible]
... per Euclidem ... [illegible] ... item ... [illegible]
... kathetos ... ad punctum ... [illegible]
... et omnes isti katheti sunt equales ... [illegible] ... basis equales
... [illegible] ... quorum duo latera
... [illegible] ... lateribus ... et omnes anguli equi[illegible]
lateribus ... anguli ... per Euclidem ... basis ... [illegible]
katheti ... equales. Item ... [illegible] ... circuli ... [illegible]
... [illegible] ... a puncto ... [illegible]
ab aliquo puncto ... [illegible] ... ad circumferentiam
equales ... puncto ... circuli ... per Euclidem ... omnes isti
katheti ducti a puncto ... ad circumferentiam circuli sunt equales ... circuli ... [illegible]
Item ... [illegible] ... contactu ... [illegible]
... [illegible] ... plana ... [illegible]
... [illegible] ... ab aliquo puncto diametri orizontis ... [illegible]
contactu orizontis ... [illegible]
... orizonte ... orizonte ... [illegible] ... puncto ...
... [illegible] ... orizonte ... [illegible]
... [illegible] ... maior ... [illegible] ... katheti
... [illegible] ... equales ... [illegible]

Superiore quidem eius spatium non obtinet. Aput etiam antiquos fumatorem
obtinet et diffundit aerem, et propter hoc videtur non [illegible] circuli ... [illegible]
... reddit causam ... [illegible] ... reddit
causam ... [illegible] ... et nocte ... [illegible]
... obtinet ... [illegible] ... obtinet
... [illegible] ... aerem ... [illegible]
... [illegible] ... videtur ... [illegible]
... circuli ... [illegible]
... [illegible] ... a terra ... [illegible]
... radiorum a terra ... [illegible]
... radiorum
... [illegible] ... a terra ... [illegible]
... apparere videtur. nocte a luna ... semper plena debi-
litatur autem et ... obtinet aerem ... hec philosophus reddit
causam ... videtur ... in nocte a luna ... luna non est semper
plena ... ut obtineat ... [illegible]
... fit in nocte a luna ... [illegible]
... fit a luna ... plenitudine ... luna ... a luna ... [illegible]
... [illegible] ... luna
... [illegible]
... [illegible] ... colorem videtur ... obtinet sol splendorem
Maxime autem ... videri ... maior ... [illegible]
... philosophus reddit causam ... videtur
maior ... ubi sol maiorem obtinet ... [illegible]
... videtur ... [illegible]

[illegible]
[illegible]
[illegible] quod in quo a g ascendit aut super hunc
41 [illegible] sit [illegible] : h [illegible] aut sit nunc in quo h [illegible] alia [illegible]
agitur omnia similiter [illegible] ut est [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] orizonte et [illegible]
[illegible] orizonte et [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
Polus aut est [illegible] in quo [illegible] sub orizonte eo in quo a g
elevato signo in quo h [illegible] in eadem erit [illegible] polus et centrum circuli
[illegible] tamdiu [illegible] erit [illegible] in quo h [illegible]
[illegible]
[illegible] polus [illegible] orizonte [illegible]
[illegible] elevato [illegible] orizonte [illegible]
polus [illegible]
[illegible]
[illegible]
9^a 1 [illegible] orizonte a g
[illegible]
[illegible]
[illegible] elevatio super orizonte
[illegible] orizonte
[illegible] aut super dyametro que a g [illegible] centro est
utrique sub orizonte [illegible] in quo a g in ea [illegible] linea in
quo [illegible]
[illegible] super dyametro [illegible] a g [illegible] in quo
[illegible] sub [illegible] orizonte in quo [illegible] a g in ea linea [illegible]
[illegible]
9^a 2 [illegible] orizonte [illegible] linea [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] orizonte [illegible] linea [illegible]
[illegible]
[illegible]
[illegible] orizonte [illegible]
[illegible] super orizonte [illegible] similiter in quo b y q
[illegible] minor est superior declinatio : similiter [illegible] erat nunc aut

abscisus est ab eo a orizonte [illegible] disparens est
primus et leuato sole [illegible]

[illegible]

[illegible] haec magis
[illegible] superius : inferius et polus et centro circuli est [illegible]

[illegible]

[illegible] in iiii diebus his quae post equatorem [illegible]
[illegible] aut in triplex quem semper fieri videmus in longioribus
aut diebus his quae ab equatore [illegible] ad equatorem aliud [illegible]
medium non fit [illegible] quia et ad arcum declinationis [illegible]
maiores semicirculo et semper ad maiores semicirculos aut in
maiori parte, quod aut ad medium declinationes equinoctialis [illegible]
quidem [illegible] declinatio [illegible] at sub ea magis [illegible] semper
est maiores [illegible] longiores [illegible]

[illegible]

describit in terra [illegible] [illegible] / Et ponit quod sunt post equinoctium autumpnale et que sunt versus polum [illegible] [illegible] autem [illegible] quod declinatio [illegible] est [illegible] [illegible] sub terra [illegible] [illegible] [illegible] sunt [illegible] / Item [illegible] quod sol [illegible] [illegible] [illegible] [illegible]
describendo [illegible] celum et terram [illegible] super orizontem [illegible] [illegible]
[illegible] sol [illegible] in alto [illegible] equinoctialium [illegible] [illegible] celum [illegible]
est super orizontem [illegible] sub orizonte [illegible] arcus [illegible] arcus noctis
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
noctis [illegible] [illegible] [illegible] [illegible] [illegible] arcus [illegible]
[illegible] super orizontem [illegible] sub orizonte [illegible] [illegible] [illegible]
ad equinoctium autumpnale / Et post equinoctium autumpnale [illegible] sunt arcus super
orizontem [illegible] [illegible] sub orizonte [illegible] [illegible] ad equinoctium [illegible]
[illegible] / Item [illegible] [illegible] causa [illegible] [illegible]
[illegible] post equinoctium autumpnale [illegible] [illegible] [illegible]
[illegible] post equinoctium [illegible] ad equinoctium autumpnale [illegible]
[illegible] post equinoctium [illegible] ad polum [illegible] [illegible] super terram
[illegible] [illegible] sub terra et [illegible] [illegible] / Et [illegible]
[illegible] post equinoctium autumpnale sol accedit ad polum [illegible] arcus [illegible]
super terram [illegible] sub terra [illegible] [illegible] debent ipse magis
[illegible] in hiis et ad estivas visiones declinationes et ad
meridianum [illegible] subtus ea pervenit sed [illegible] longe distat
ab [illegible] et modicum est magnitudinis declinationis [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
6 [illegible] [illegible] [illegible] ad [illegible] estivales [illegible]
[illegible] magne declinationis [illegible] super terram [illegible] sol [illegible] ad [illegible]
[illegible] ad [illegible] declinationis [illegible] ad meridianum [illegible] polus [illegible] sit ad
[illegible] [illegible] orizonte [illegible] longe distat a [illegible] ad [illegible] [illegible]
9° [illegible] magne [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sit [illegible] [illegible] [illegible] sit [illegible]
[illegible] sub orizonte / Et [illegible] post equinoctium [illegible]
[illegible] [illegible] [illegible] super orizontem [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] super terram [illegible] [illegible]
[illegible] sol plus [illegible] super terram [illegible] [illegible] [illegible]
[illegible] [illegible] sol [illegible] ad [illegible] [illegible] [illegible]
[illegible] super orizontem [illegible] sub orizonte [illegible]
[illegible] [illegible] orizontem [illegible] [illegible] [illegible]
[illegible] aut [illegible] aut que ad hiemales visiones dicti [illegible]
non multum super terram declinationes [illegible] [illegible]
modicum [illegible] elevatur in quo [illegible] sol [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] ad [illegible] hiemales [illegible] super terram
[illegible] [illegible] [illegible] sol [illegible] [illegible]
9° 26 [illegible] [illegible] [illegible] post equinoctium [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
sub orizonte [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] polus [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] unde [illegible] super orizontem [illegible] minor [illegible] dies [illegible] tunc
[illegible] arcum circuli quem sol describit [illegible] super orizontem [illegible] sol [illegible]
[illegible] modicum elevatur super orizontem [illegible] polus [illegible] pars
[illegible] sub orizonte [illegible] ad elevationem solis [illegible] Cap[illegible]
[illegible] continuatur [illegible] parelius et virgis [illegible] fit autem
[illegible] eadem [illegible] causa : parelius quidem [illegible] visus ad solem [illegible]
[illegible] parelius [illegible]
[illegible] parelius [illegible] virgis
et [illegible]
[illegible]
[illegible] virgis [illegible]
est [illegible] parelius [illegible] virgis [illegible] eadem [illegible]
halo et virgarum [illegible] parelius fit [illegible] ad solem [illegible]
[illegible] parelion et virgas [illegible] halo [illegible]
[illegible] visus ad solem [illegible] nubes [illegible] ad sole.
[illegible] ad [illegible] incidit [illegible] visus [illegible] solem [illegible]
virge autem [illegible] semper fiunt [illegible] solem [illegible]
[illegible] ab aquis [illegible] ad nubem [illegible]
[illegible] inequalitate nubes [illegible] apparent [illegible] in aqua
autem virgis plena nubes [illegible] in aqua videtur [illegible]
lor nubis in virgis autem super ipsam nubem [illegible]
[illegible] de parelius [illegible]
[illegible] apparent [illegible] virgarum ad quod [illegible] colorem [illegible]
[illegible]
[illegible] virge [illegible]
[illegible] incidit [illegible] nube et [illegible] ad sole [illegible] aqua [illegible] qualem
[illegible] nubibus [illegible] sub sole [illegible] ad [illegible] nube
ab aquis [illegible] ipse nubes [illegible] inequalitate [illegible]
[illegible] in aqua nubes [illegible] plena virgis [illegible]
color nubis videtur [illegible] in aqua [illegible] super ipsam nubem
[illegible] aqua nubes [illegible] sub sole [illegible]
[illegible] color [illegible] color [illegible]
vel color [illegible] aqua [illegible]
nube [illegible] colorata [illegible]
[illegible] coloribus [illegible] colores apparent [illegible] ad modum [illegible]
[illegible] nubes [illegible] plena virgis [illegible] colorum [illegible]
[illegible] nube [illegible] ad [illegible]
colores [illegible] aqua vel [illegible]
ad nubem [illegible] apparent colores [illegible]
qui [illegible] nube [illegible] color [illegible] virge [illegible]
[illegible] nube [illegible] ab aqua [illegible] colores
nubes [illegible] nube [illegible] apparent colores [illegible]
nube vel super nubem [illegible] irregulares sunt nubes [illegible]
Fit autem [illegible] : quidem [illegible] autem [illegible]
magis aquosa [illegible] autem [illegible] visu ad solem [illegible]
quidem [illegible] videtur. Color autem [illegible] in irregulari [illegible]
fulgidus et albus [illegible] ad quem [illegible]
[illegible] autem [illegible] talia

videtur quod a talibus reflexionibus, verum quia eius non apparet color similis
iridis si in illo non procedunt et ista virga equidem sunt
propter irregularitatem speculi non figura sed colore sicut apparet ab

Sedecima [illegible]

[illegible]

8 no[n] virge

Virga generatur tali modo

[illegible]

Parelius autem cum maxime regularis sit aer et spissus,
similiter quod albus apparet regularitas eius speculi facit
simpliciter solis colorem, reflexio autem simul tenuis visus, propter sunt
[illegible] ad caliginem spissa contra caliginem et [illegible]
[illegible] propter autem aquam propter cuius apparet solem colorem [illegible]
apparet [illegible] ab aere politus speculum propter spissitudinem et densitatem,
cum color solis est albus, et parelius apparet albus sicut [illegible]
[illegible] modo quemadmodum parelios et [illegible] duo [illegible]

[illegible]

Propter hoc idem aut magis aque: magis enim accidit cum spirat auster ad generationem aque. Australis autem borealis magis [illegible] quia magis australis ignitus aer in aquam [illegible] ad arcticum [illegible]

[illegible]

[illegible] Fiunt autem semper neque desuper neque desubtus sed ex lateribus et virge et parelii, et neque prope solem valde neque longe [illegible]

[illegible]

[illegible] Soli enim consistente longe de centro [illegible] nec enim confugit [illegible] [illegible] longe [illegible] [illegible] et halo non fit ex opposito solis [illegible]

[illegible]

[illegible] longe a sole [illegible] quod appareant [illegible] sole [illegible] appareant [illegible] sub sole [illegible] appareant a latere [illegible]

[illegible] sub sole [illegible] Et totaliter [illegible] longe a sole [illegible] nubes [illegible] longe a sole [illegible] ad solem [illegible] nubes [illegible] a sole [illegible] ita [illegible] solem [illegible] longe [illegible]

Sursum quidem igitur si fiet et prope dissolvitur solis [illegible] autem longe.
ponitur quia ut fiat [illegible] non meridiei [illegible]

[illegible] quod [illegible] sub sole [illegible] nubes [illegible] solem [illegible] longe sunt a sole [illegible] ad solem [illegible] sole [illegible] nubes [illegible] longe a sole [illegible]

In latere autem tunc est distans speculum, ut neque sol [illegible] dissolvat [illegible] sint [illegible]

[illegible] a latere solis [illegible] a sole [illegible] dissolvit [illegible] ad solem [illegible] distans [illegible]

Sub sole autem [illegible] autem in medio celi visus dissipatur [illegible] appareant [illegible] sub sole [illegible] a sole [illegible] medio celi [illegible] dissolvitur [illegible] ad solem [illegible]

Et totaliter neque ex latere medii celi fit visus cum

no ad thamfstur ut paucus pertingat ad speculum et ... sit
ymmo debilis ... Et ... quod ... accidit ... congregacionem
in locis hiis que sup terra sunt ... et terra ... [illegible]
[illegible]

[illegible]

Ceterum autem in ipsa terra inclusa ex partibus ...
dicendum ... [illegible]

2 [illegible]

[illegible]

... faciat enim duas differencias corporum ... aliud in alto ... duo quidem
... exalaciones ... hec quidem vaporosa ... due autem ...
corpora que in terra fiunt. hec quidem enim fossilia. hec autem metal-
lica ... [illegible]

[illegible]

... Dicta quidem exalacio est que ignita facit fossilia. ... puta

Tercius
Quartus
Secundus

lapidum genera infusibilia et sandaracham et ochram et minium et sulphur et alia talia. plurima autem fossilium sunt hec quidem pulvis colorata, hec autem lapis ex talibus consistens velut cinnabrium.

[illegible] ... sicut cinnabrium ... fossilium ... metallicorum ... lapides ... sulphur ... pulvis coloratus ... [illegible]

[illegible] ... nota ... quod omnia fossilia ... lapidum ... sulphur ... aglutinate vel congregate ... [illegible]

[illegible] ... pulvis ... [illegible]

[illegible] ... exalatio ... calida ... lapides ... [illegible]

Exalacionis autem vaporose quecunque metallantur sunt quidem fusibilia aut ductilia, puta ferrum et aurum.

[illegible] ... metallorum ... exalacio vaporosa ... ductilia puta aurum ... metalla ... exalacione ... vapora ... coagulate ... plumbum stannum et argentum ... ductilia ... aurum ... aqua ... [illegible]

Facit autem hec omnia exalacio vaporosa inclusa et maxime in lapidibus propter siccitatem in unum coartata et coagulata, velut ros et pruina cum segregata fuerint.

[illegible] ... exalacio vaporosa inclusa in lapidibus ... coagulata ... ros autem pruina ... metalla ... exalacione vaporosa ... coagulata ... metalla ... exalacione vaporosa inclusa ... [illegible]

in lapidibus [illegible] operis [illegible] congelacio vaporosa [illegible] et [illegible]
[illegible] que [illegible] in lapidibus [illegible] congelacio sicca [illegible] congelacioni
vaporose [illegible] ad generacionem metallorum || quod sit hec tamen ut
hec aut [illegible] quam [illegible] aqua hec sit ut non
potencia quod [illegible] aqua [illegible] Est aut [illegible] adhuc [illegible]
sta. propter quod passio [illegible] sicut humores [illegible] sic sit hec
quid eo hec aut aurum [illegible] fieri coagulata singula hec
sunt [illegible] compat [illegible] ad generacionem metallorum [illegible]
[illegible] || Et [illegible] secundum [illegible] declarat [illegible]
quod [illegible] per [illegible] congelacionis [illegible]
[illegible] congelacionem siccam [illegible] metalla sunt a quo [illegible] a quo [illegible]
[illegible] aqua [illegible] est [illegible] aqua [illegible]
[illegible] coagulacionem vel [illegible]
[illegible] aurum [illegible] metallorum [illegible]
congelacionem coagulata [illegible] metalla fiat [illegible]
coagulacionem congelacionis [illegible] metalla [illegible]
[illegible] ab congelacionem vaporosa [illegible] congelacionem sicca [illegible] me-
talla [illegible] ab congelacionem vaporosa [illegible] congelacionem sicca
[illegible] metalla [illegible] metallorum [illegible]
[illegible]
Metalla sunt a quo [illegible] aque [illegible] a quo [illegible] aque
[illegible] congelacio vaporosa [illegible] congelacionem siccam [illegible]
[illegible] aqua [illegible] metal-
[illegible] coagulacionem [illegible]
[illegible]
coagulacionem [illegible] fiat [illegible] aurum [illegible] metalla
[illegible] congelacio vaporosa [illegible] congelacionem siccam [illegible] coa-
gulatur [illegible] fiat metalla [illegible] sunt
metalla [illegible] || Et igitur omnia et tria sunt [illegible]
propter quod [illegible] congelacioni [illegible] auro aut solido non [illegible]
[illegible] omnia metalla [illegible]
[illegible] congelacionem [illegible] aurum [illegible] metalla
[illegible] congelacionem [illegible] omnia [illegible] aurum [illegible] in igne [illegible]
[illegible]
[illegible] nichil [illegible]
Commune igitur dictum est de hiis omnibus sigillatim
aut considerandum intendentibus [illegible]
[illegible] Ergo [illegible] est dictum [illegible]
[illegible] nobis [illegible]
[illegible] metallis [illegible] est dictum [illegible] postea
[illegible] est dicendum et hec [illegible] in libro [illegible] que
[illegible] nobis [illegible] Et [illegible]
[illegible] omnipotentis dei [illegible]
[illegible] Maria [illegible] sancti
[illegible] in secula seculorum sit benedictus Amen amen

Quartus liber

Quoniam autem quatuor cause determinate sunt elementorum, harum autem secundum coniugationes et elementa quatuor accidit esse. Iste est quartus liber ... in quo Aristoteles determinat de illis que consequuntur mixta ...

[illegible]

... et humiditas ad agendum. Sic et caliditas et frigiditas ... per actum ... Siccitas vero et
humiditas sunt accidentia ... vehementer. Unde cum in omnibus caliditas ...
fides aut horum conducere, et frigiditas humantes et congre-
lantes et pinguitates et homogenia et non homogenia et humi-
ditates et spissitates et induratos et mollificantes. Sicca autem
et humida terminata et ad alias duas passiones sunt passiva
ipsa secundum se et communiter quia ex ambobus corpora constat ...
[illegible]

[illegible]

... in omnibus palam quibus determinavimus nunc ipsorum [illegible]

Adhuc autem calidum quidem et frigidum ut factiva dicimus

Coctetum autem sicut factum ad humidum autem et siccum passiva [illegible]

et finale autem et difficile terminabile in pati dictum nunc ipsorum

dicimus humidum est quod facile [illegible] passiva manifestum

[illegible]

Caliditatum

Determinat autem hic sicut operantur factiva et passivorum species

[illegible]

Primo quidem universaliter simpliciter generatio et naturalis [illegible] mutacio

ab ipsis opus et [illegible] corrupcio secundum naturam hec quidem

sunt [illegible] ipsorum

[illegible]

[illegible] tangit operatas [illegible] vel [illegible] digestio et indigestio [illegible]

[illegible]

Est autem simplex generatio et naturalis transmutatio ab his virtutibus cum habeant proportionem subiecta unicuique natura. Haec autem sunt dictae potentiae passivae. Caliditas autem et frigiditas obtinentia materiam [illegible] non obtinentia autem secundum partem quidem molysis est indigestio fit [illegible]

[illegible]

[illegible] Est autem generationi contrarium maxime communis putrefactio omnis enim corruptio naturalis in ea via est puta senectus et ariditas finis autem omnium horum putredo nisi aliquid violentia corrumpatur. Est enim et carnem et os et quodcumque comburere horum autem finis naturalis corruptionis putrefactio est [illegible]

[illegible]

Secundum quod humida prima et deinde sicca tacta sunt: [illegible] sicca causant et humida humida sunt sicca operantibus [illegible] sit ad corruptio cum illud quod humida obtineat humidum ipse humidas [illegible]

[illegible]

[illegible] humidi naturale [illegible] manet [illegible]

[illegible] putrefactionem [illegible]

[illegible] putrefactione [illegible]

[illegible] putrefacto in huius [illegible]

[illegible] uno singulariter dicit: putrescunt enim separata a natura [illegible]

et putrescunt omnia alia preter ignem, et enim terra et aqua et aer

putrescunt. Omnia enim hec sunt materia ignis [illegible]

[illegible] putrefacto [illegible]

[illegible] omnia alia [illegible] ignem

[illegible] putrefactio [illegible]

[illegible]

Putrefactio autem est corruptio quedam in unoquoque propria caliditatis

[illegible] ab aliena caliditate, [illegible] autem ambiente [illegible]

[illegible] putrefactionis [illegible]

[illegible]

[illegible] aqua [illegible]

[illegible] putrefactio [illegible] calidi [illegible]

[illegible] calidi [illegible]

[illegible] aqua [illegible]

[illegible]

Margin notes: [illegible] humid[i] · [illegible] · putrefactio · [illegible] humid[i] · putrefactio [illegible] diffi[nitio]

putrescere [illegible] Item [illegible] calidi [illegible] putrefactio [illegible]
[illegible] corrupta [illegible] impedita [illegible]
Et [illegible]
Quare eam secundum indigentiam proprii calidi. in [illegible] digestio autem est
[illegible] utrique est causa et putrefactionis [illegible] passio que [illegible]
[illegible] calidi alieni [illegible]
[illegible] putrefactionis [illegible] calidi [illegible]
[illegible] passio [illegible] calidi [illegible] putrefactionis [illegible]
[illegible] calidi aliena [illegible]
[illegible] proprii putrefactionis [illegible] calidi [illegible]
[illegible] calidi [illegible]
[illegible] Item [illegible]
[illegible] calidi [illegible]
[illegible] calidi [illegible]
[illegible] calidi [illegible]
Ideo siccior enim est [illegible] fiunt putrefacta omnia [illegible] et tamen terra
evaporat quod [illegible] et fumus [illegible] calido [illegible]
adducit enim exiens ipsa caliditas [illegible] et exiens humidum non est
[illegible] calidi [illegible]
[illegible] putrefactio [illegible] calidi [illegible]
[illegible] putrefactio [illegible] calidi [illegible]
[illegible] calidi [illegible]
[illegible]
[illegible] calidi [illegible]
[illegible] calidi [illegible] putrefactio [illegible]
[illegible] putrefacta [illegible]
[illegible] calidi [illegible]
[illegible] calidi [illegible]
[illegible] autem minus putrescunt quam in estu in hyeme
[illegible] enim paucum in ambiente aere et aqua
[illegible] In estate autem amplius [illegible]
[illegible] calidi [illegible]
[illegible] putrefacti [illegible]
[illegible] in hyeme [illegible] pauca calida in aere ambiente [illegible] aqua [illegible]

calid[um] [illegible] ut sit sup[er] calid[um] [illegible] Sed in estate calid[um] [illegible] 24

[illegible] putrefacto sit [illegible] a calo[re] [illegible]

[illegible] calid[um] [illegible] quia non [illegible]

[illegible] in calid[o] [illegible] calor[e] aer[is]

[illegible] et ita [illegible] calor[e] [illegible]

in estate aut[em] [illegible] et ita [illegible] calor[e] [illegible]

ergo [illegible] putrefacto || [con]gulatu[m] magis eius frigidu[m] q[uam] aer calidus

et neq[ue] quod terra : non ergo obtinet. Movens aut[em] obtinet [illegible]

[illegible] putrefactibilis || Et [illegible]

[illegible]

[illegible]

[illegible]

[illegible] coagulatu[m] [illegible] putrefit [illegible]

[illegible]

[illegible] coagulatu[m] [illegible] putrefit et

putrefactu[m] sit a calo[re] [illegible]

[illegible]

[illegible] a calo[re] [illegible] putrefit [illegible]

movens ad putrefactio[n]e[m] [illegible]

[illegible] coagulatu[m] [illegible] putrefit [illegible]

[illegible] coagulatu[m] [illegible] calid[um]

[illegible]

[illegible] calor [illegible]

[illegible] metallis || putrefit quia calid[um] [illegible] eius que in aere [illegible]

[illegible] fervores : [illegible] que non obtinet neq[ue]

[illegible] neq[ue] [illegible] calid[um] putrefit [illegible]

putrefacti [illegible]

[illegible]

[illegible] putrefit [illegible]

[illegible] calid[um] [illegible]

[illegible]

[illegible]

[illegible] putrefit [illegible]

putrefit [illegible] || Et quod mo[vetu]r et fluit minus putrefit, quia non

[illegible] || [illegible]

Similit[er] aut[em] : motu[m] debilior eius fit motu [illegible] ab eo

in aere calo[re] [illegible] facit per

[illegible] motu [illegible]

[illegible] putrefit [illegible]

[illegible]

[illegible] putrefit [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Eadem autem ea et quare multum in pauco putrescit [illegible] amplius est igne proprio [illegible] quam ut obtineat eam que in circumstante ad virtutes [illegible] [illegible] [illegible] non et alie aeque [illegible] [illegible]

[illegible]

Et alia: naturalis enim contraria facit segregata caliditas et corruptor autem est putredo [illegible]

[illegible]

Cam [illegible]

Reliquum autem est dicere [illegible]: operum [illegible] potentie dicte virtutes [illegible]

[illegible]

[illegible] actiui et passiui [illegible] ad [illegible] deducta [illegible] actualis [illegible]

Est itaque caloris digestio. Digestionis autem species sunt pepansis, epsesis, optesis. Indigestio autem contraria: omotes, molensis, statensis. Oportet autem accipere non proprie hec dici nomina rebus, sed non iacent universaliter hiis que sunt similia. Quare non has putare oportet dictas species [illegible]

[illegible] digestio [illegible] indigestio [illegible] pepansis epsesis optesis [illegible] indigestio est [illegible] omotes molensis statensis [illegible]

[illegible]

Dicamus autem ipsorum unumquodque quid est. Digestio quidem est a naturali et proprio calido ex oppositis passivis [illegible]

[illegible] digestio [illegible] a calido naturali [illegible] passivis [illegible] digestio [illegible]

Hec autem sunt propria unicuique materia. Cum enim [illegible] Digestio sunt [illegible]

[illegible] digestio [illegible]

pepansis epsesis / assatio / optesis / indigestio / omotes molensis / statensis

Digestio

[illegible] in suis humiditatibus [illegible] calor [illegible] digerens [illegible] calor [illegible] agendi [illegible] digestionem in ipsa [illegible] carne [illegible] calor [illegible] agit [illegible] digestio [illegible] digestio [illegible] quod [illegible] aliquid

Et principium pepansis a calore [illegible] ipsa accidit et per ampliorem consumatum [illegible] velut alimentum et digeritur et per balnea et per alia talia; aliud est principium quod in ipso calidum est [illegible] hic declarat [illegible] digestionis [illegible] in ipsa digestione [illegible] alimentum digeritur per balnea [illegible] digestionis [illegible] calor [illegible] ad digerendum alimentum [illegible] agit calor [illegible] per balnea [illegible] ad agendum [illegible] calorem [illegible] per balnea [illegible] digestionem [illegible]

Finis: et finis [illegible] autem in aliquibus quod forma [illegible] natura [illegible] et dicimus [illegible] stionis [illegible] cum sit [illegible] et [illegible] a opthesim a putrefactum [illegible] calefactum [illegible] et digestum [illegible] dicimus [illegible] digestionis [illegible]

[illegible]

Sicut musta et que: velut et lacrima [illegible] autem ita et alia [illegible] hic declarat [illegible] aliquid [illegible]

[illegible]

Accidit autem hoc pati omnibus cum obtineat materia. hoc enim est que tunc ab ea que in natura caliditate ... cum ... in ipsa natura. Racio hoc est [illegible]

[illegible]

Sanitatis sunt signa urine et se... cessiones et totaliter superfluitates et dicuntur digesta ... quoniam significat caliditatem propriam obtinere indeterminatam. [illegible]

[illegible]

[illegible] reddit ipsi [illegible]

Necesse autem digesta grossiora et calidiora esse: tale enim efficit molius et grossius et sicius. Digestio quidem igitur hoc est. [illegible]

[illegible]

Indigestio quidem autem imperfectio propria: indigentia autem caliditatis frigiditas ipsius autem est oppositorum passivorum quecumque est unicuique materia naturalis. Digestio quidem igitur et indigestio definitur hoc modo. [illegible]

[illegible]

Cam[illegible] — Pepansis autem est digestio quedam: digestio enim alimenti in pericarpiis pepansis dicitur. Cum autem digestio perfecta fuerit pepansis est, cum semina que in pericarpiis sunt possint efficere tale alterum quale ipsum est. [illegible]

[illegible]

[illegible] humidi [illegible] digestio [illegible] plante que digestio [illegible] pepansis [illegible]
[illegible]
[illegible]
[illegible] planta [illegible]
[illegible]
[illegible] radice [illegible]
[illegible]
[illegible] planta [illegible]
[illegible] a calido [illegible] digestio
[illegible]
[illegible] et postea [illegible]
[illegible] efficacia ad [illegible] plantarum [illegible]
[illegible] pepansis [illegible]
[illegible] aut pepansis et alia multa digestorum non sunt eadem
dicuntur: quid species methaforice aut dicta quia non latent
sicut dictum est plus nomina sunt unicuique passionum [illegible]
[illegible] a naturali calore et frigore. Est aut [illegible]
et fleugmatis [illegible] pepansis [illegible] a naturali calido digestio contrarii
humidi [illegible] pepansis methaphorice dicta est [illegible]
[illegible] pepansis methaphorice dicta [illegible] pepansis [illegible]
[illegible]
[illegible]
[illegible] pepansis [illegible]
[illegible] digestio humida [illegible] a naturali calido [illegible]
[illegible] pepansis [illegible] digestio [illegible]
[illegible] pepana [illegible] pepansis [illegible]
[illegible]
[illegible]
[illegible] pepansis [illegible]
[illegible]
[illegible] pepansis methaphorice dicta [illegible]
[illegible] pepansis [illegible] humidi [illegible] a calido naturali [illegible] — (margin: metaphorice pepansis est)
[illegible] pepansis [illegible] humidi [illegible] digestio a calido [illegible]
[illegible] non obtinet. Si ipsum enim quidem
impossibile sicut timac: aquosa et talibus aut [illegible]
consistunt et ex subtilibus semper cum [illegible] sunt pepasmi
passa omnia. Hoc quidem ipsum ducit nam secundum hoc hoc
aut cuique pepansis quidem dicta est et quid est [illegible]
pepansis [illegible] pepansis [illegible] methaphorice [illegible]
pepasmi [illegible] timac [illegible]

ex spumoso et humido aereis constat aquosa [illegible] ex terreo et aereo aquoso constat
ea que sunt terrestria et omnia pepansim passa sunt [illegible] compacta ex subtilioribus et humido
[illegible] convertit ipsum in [illegible] calido [illegible] [illegible] [illegible]. Tunc vera [illegible]

9° [illegible] dicitur ex quo quidem pepansis [illegible] [illegible] [illegible] omnia pepana sunt compacta
pepansis [illegible] [illegible] sunt [illegible] prima sunt compacta a quo resolvuntur humores subtiles
[illegible] [illegible] [illegible] omnia pepana sunt [illegible] [illegible] [illegible] [illegible]
[illegible] calido [illegible] [illegible] humido [illegible] in ipso gestionem digestionis [illegible] [illegible]
[illegible] [illegible] [illegible] resolvunt ea que sunt magis subtilia [illegible] [illegible]
terrestria ipsum humidum [illegible] et in humida aerea et spumosa et [illegible]
[illegible] et digestione [illegible] [illegible] sunt aquosa. Aquosa autem [illegible] [illegible]
[illegible] terrestria [illegible] ex subtilioribus sunt compacta et calor naturalis sit [illegible]
[illegible] [illegible] quidem [illegible] vel illud [illegible] [illegible] [illegible] [illegible]

Omothes **Omothes autem est contrarium. Contrarium autem pepansi indige-**
stio alimenti in pericarpio. Hoc autem est indeterminata humiditas.
Propter quod aut spumosa aut aquosa aut composita que ex ambobus est
Omothes [illegible] [illegible] [illegible] [illegible] omothes [illegible] [illegible] pepansi
[illegible] [illegible] omothe [illegible] [illegible] [illegible] metaphorice [illegible] [illegible] autem est
omothes [illegible] [illegible] [illegible] omothes [illegible] [illegible] [illegible] [illegible] fiat [illegible]

Secundum fiat [illegible] autem [illegible] [illegible] omothes autem [illegible] pepansi [illegible]
pepansi [illegible] [illegible] alimenti in pericarpio [illegible] alimento [illegible] humiditas determinata
[illegible] omothes [illegible] [illegible] humidorum [illegible] spumosa aut aquosa aut [illegible] que

Nota [illegible] ex ambobus [illegible] [illegible] omothes [illegible] pepansi [illegible] pepansis [illegible]
digestio alimenti in pericarpio [illegible] omothes sit indigestio alimenti in pericarpio
[illegible] autem alimento [illegible] humiditas determinata [illegible] [illegible] caloris [illegible] [illegible]
[illegible] [illegible] ad suam digestionem [illegible] [illegible] determinata [illegible] [illegible] [illegible]
[illegible] [illegible] omothes [illegible] [illegible] in humido terreo vel aquoso vel ex
ambobus [illegible] [illegible] omothes sit in humido [illegible] [illegible] aereo aquoso

[illegible] vel composito ex [illegible] [illegible] [illegible] [illegible] terreo [illegible] [illegible] aquosa
[illegible] humido [illegible] [illegible] pigrum et [illegible] [illegible] humidum aqueum [illegible]
[illegible] aque [illegible] [illegible] et [illegible] humidum [illegible] [illegible]
composita [illegible] [illegible] et lapides || **perfecto equidem [illegible] Omothes imp-**
Enomaz autem pepansi: perfecto est. || fit autem imperfecto propter
indigentiam naturalis caloris et in commensuratione ad humidum quod pe-
pansim pati nullam aut humidum ipsum secundum se pepansim pa-
titur sine perfecto. Aqua enim non ingrossatur sola humidorum. Accidit autem
in eo ex calido et paucitate aut quia maturatur multum. Propter
quod et subtiles humores crudorum que homina sunt et frigidi magis
quam calidi et inesibiles et impotabiles. [illegible] [illegible] [illegible]

[illegible] sit omothes [illegible] [illegible] [illegible] declarat [illegible] [illegible] accidit autem [illegible] pepansi
[illegible] perfecto [illegible] omothes [illegible] imperfecto [illegible] [illegible] imperfecto propter
indigentiam caloris naturalis [illegible] ad humidum [illegible] pati pepansim [illegible] digestionem
[illegible] [illegible] [illegible] pati pepansim [illegible] [illegible] [illegible] humidorum [illegible]
sola [illegible] [illegible] accidit autem [illegible] [illegible] sit paucitas [illegible] humidum [illegible]
[illegible] [illegible] propter quod [illegible] humores crudorum [illegible] omothem passa sunt subtiles [illegible]
9° [illegible] magis frigidi quam calidi [illegible] [illegible] impotabiles [illegible] [illegible] [illegible] omothes
[illegible] imperfecto [illegible] [illegible] [illegible] [illegible] imperfecto omothes [illegible]
[illegible] [illegible] pepansis [illegible] perfecto [illegible] [illegible] imperfecto [illegible] [illegible] [illegible] || [illegible]
[illegible] [illegible] imperfecto propter defectum caloris naturalis sit [illegible] propter commensurationem caloris naturalis

[illegible] 98

[illegible] 99

[illegible]

Dicit autem omothes sicut et pepansis : eme et sessiones et cathariri [illegible] omnia dum [illegible] [illegible] tam [illegible] sunt obtecta a calid[itate] [illegible] costat omnia dia appellant [illegible] oma : indigesta

[illegible] 3 : [illegible]

[illegible] Catharri : i : zeumata

[illegible]

Longe autem pedit[ibus] et latter hom[ine]s et lac hom[inum] et alia multa dum[?] si possi[bi]lia punitas et costas a caliditate non passa sunt [illegible] passa [illegible] aut non, quia nec ingressa pepansis et omothes [illegible] est quia et [illegible] est [illegible]

[illegible] 8 : [illegible]

[illegible]

[illegible]

Capitulum viii

Epsesis autem secundum totum : ea incipiente intimati in humido [illegible]

[illegible]

Dicitur autem nomen per solum in : sicut decem spermatosa et aquosum [illegible]

[illegible]

Digestio autem fit ab eo qui in humido igne [illegible] ordine assant ab exteriori calido patitur in quo [illegible] humido fit illud magis siccum in ipsum assumens. Hoc autem [illegible] contrarium

[illegible]

facit, segregatur enim ab hoc humidum a caliditate que con-
tento humido. [illegible]

[illegible]

Propter quod sicciora que elixa sunt quam assa: attrahunt
in seipsa humidum que elixantur. Prevalet enim que de
foris caliditas ei que intus. Si autem non vinceret, que intus
traheret utique in seipsam. [illegible]

[illegible]

Est autem non omne corpus elixabile: in quo nullum est hu-
velut in lapidibus, neque in quibus inest quidem, sed impossibile
obtinere propter spissitudinem, velut in lignis. Sed quecumque corporum habent

humiditatem passibilem ab ea que in humido igneitate [illegible] declarat que sit elixatio [illegible] Sed non omne corpus est passibile elixationem [illegible] in quo [illegible] est humidum [illegible] est quod humiditas [illegible] corporis [illegible] calefaciens [illegible] humidum [illegible] quemadmodum [illegible] omne corpus est elixabile [illegible] quod pati [illegible] pati a calore [illegible] in humido [illegible] lignum [illegible] humidum [illegible] elixatur [illegible]

Dicitur autem et aurum [illegible] pati et lignum et alia multa secundum speciem quidem non eandem methaforice autem non omnia nomine dyes [illegible] pati [illegible] methaforice [illegible] lignum [illegible] pati [illegible] methaforice [illegible] pati [illegible] humido [illegible] pati [illegible] metalla [illegible] calorem [illegible] humido [illegible] lignum [illegible] liquor [illegible] elixari [illegible] Alia autem [illegible] pati dicimus velut lac et mu[illegible] et humidum [illegible] cum fuerit in humido et liquor [illegible] speciem aquarum privata ab eo qui in circuitu et de foris igne calefaciente sic enim quodam simile [illegible] facit [illegible] humidum [illegible] et [illegible] velut lac [illegible] pati [illegible] liquor [illegible] humido [illegible] aqua [illegible] calefaciente [illegible] lac [illegible] humidum [illegible] pati [illegible] methaforice [illegible] liquor [illegible] aqua [illegible] calore [illegible] humido [illegible] calorem [illegible] liquor lactis pati a calore [illegible] aqua [illegible] digestis Sed finis autem non idem omnibus neque elixatis sed hiis quidem ad esum hiis autem ad potationem hiis vero ad alia opportunitatem Etenim farmaca elixari dicimus [illegible] pati [illegible] methaforice [illegible] elixatis neque omnibus [illegible] ad esum et ad [illegible] hiis autem ad

sorbicionem vel ad [illegible] [illegible] ad [illegible] optimitate [illegible] vide [illegible] mediocritate [illegible]
[illegible] [illegible] elixari [illegible] [illegible] [illegible] elixata vel digesta elixata
vel digesta [illegible] [illegible] [illegible] elixari [illegible] [illegible] valeat ad [illegible] [illegible]
[illegible] [illegible] [illegible] valeat ad [illegible] [illegible] [illegible] [illegible] valeat ad [illegible] optimitatem
[illegible] mediocritate [illegible] decoquitur [illegible] elixatur [illegible] [illegible] debite valeat [illegible]
[illegible] [illegible] [illegible] quia [illegible] [illegible] [illegible] aut [illegible] aut [illegible]
[illegible] quecumque grossa [illegible] quod ipsorum [illegible] [illegible] aut [illegible]
[illegible] [illegible] [illegible] dissogata [illegible] ingrossari [illegible] aut subtiliari
sicut lac in [illegible] coagulatum omnia elixalia sunt oleum aut
non elixabit [illegible] secundum [illegible] quia [illegible] nullum patitur [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] eadem [illegible] eadem [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aut [illegible] 6
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dissogata [illegible] [illegible]
[illegible] [illegible] [illegible] aut subtiliari [illegible] lac [illegible] coagulari [illegible] [illegible] [illegible]
[illegible] elixabilia [illegible] aut oleum [illegible] [illegible] [illegible] elixabit [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] eadem [illegible] vel elixacionem [illegible] [illegible] [illegible] 4
[illegible] [illegible] vel [illegible] [illegible] vel [illegible] [illegible] elixabilia [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
quod [illegible] natabat [illegible] lacte [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
ubi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] debeat
[illegible] [illegible] [illegible] [illegible] sit post decoctionem [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] decoctionem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] vel [illegible] [illegible] quod [illegible] [illegible] subtiliari [illegible] [illegible] [illegible]
[illegible] [illegible] lacte [illegible] aque [illegible] [illegible] [illegible] [illegible] subtiliari [illegible]
[illegible] coagulari [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] aut sit [illegible] [illegible] [illegible] decoctio [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] ista sunt elixalia [illegible] [illegible] [illegible] elixata sunt [illegible]
quia [illegible] sunt [illegible] sunt [illegible] aqua [illegible] [illegible] [illegible]
[illegible] aque [illegible] vel decoctum sit [illegible] [illegible] [illegible] [illegible]
[illegible] oleum [illegible] [illegible] elixabile [illegible] [illegible] [illegible] [illegible] a calido
[illegible] elevato [illegible] [illegible] digestio fiat [illegible] vel [illegible] vel
[illegible] vel [illegible] [illegible] aqua [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] elixabile oleum [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible]
aqueis vel aereis in eodem [illegible] evaporant [illegible] separacione ab eo [illegible]
[illegible] oleum [illegible] [illegible] [illegible] [illegible] [illegible] vel leve [illegible]
[illegible] de oleo evaporatur [illegible] subtile [illegible] [illegible] evaporant [illegible] est
[illegible] [illegible] [illegible] oleum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] ob [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Secundum expressum quid est digestio hic est, et nichil differt
in organis artificialibus et naturalibus si [illegible] fiat [illegible] [illegible] [illegible]
omnia eciam [illegible] fit [illegible] [illegible] [illegible] [illegible] [illegible] quod digestio
[illegible] elixacionem [illegible] [illegible] [illegible] et nichil [illegible] si quid fiat in organis in
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quod digestio [illegible]
[illegible] [illegible] expressum [illegible] [illegible] [illegible] [illegible] fit [illegible] [illegible] [illegible] et [illegible] [illegible]
fiat [illegible] artificialia [illegible] elixatur [illegible] [illegible] aqueo [illegible] [illegible] fiat [illegible] organis
naturalibus [illegible] decoquitur [illegible] [illegible] [illegible] organis [illegible] [illegible] a calido
[illegible] vel [illegible] vel [illegible] calido [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] ista [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in [illegible] [illegible] [illegible]

Molensis autem indigestio quidem contraria autem epsesi. Erit autem
utique prima dicta indigestio eius quod in corpore interminata
propter defectum caliditatis que in ipsum humido [illegible]

[illegible]

frigiditate quod est dein est. Fit autem propter mo-
defectus autem; cum aliud compelli eum dicens [illegible] defectus; fit autem
propter multitudinem frigiditatis in humido, aut propter multitudinem que in epsesim
patitur. Non accidit enim eam que in humido caliditatem ampliorem
quidem esse, quam ut non moveat innocentem, aut quam ut coagulet et
condensat [illegible]

[illegible]

paucius sunt, quia que
plerumque quidem dulcia quidem que molisim: epsesim passa humida
aut determinata magis epsesi quidem [illegible] et melius dein est epsesi
et propter quid [illegible]

[illegible]

et vaporatio a calore continente in humido [illegible] quod humidum [illegible] complete per calorem
continente in humido [illegible] patet de [illegible] molinsim [illegible] quia paciens [illegible]
[illegible] talis [illegible] agit in humido [illegible] complete
[illegible] patet [illegible] in humido complete
[illegible] et debite regulata [illegible] humiditas [illegible]
[illegible] molinsim sit [illegible]
[illegible] caloris destructa [illegible] patet [illegible] molinsi
methaphorice dicta [illegible] dicta [illegible]
[illegible] aliud est digestio a calore sicca et aliena [illegible]
Optesis: [illegible] diffinit optesim et statim [illegible]
[illegible] diffinit optesim [illegible] dicta [illegible]
[illegible] optesis
[illegible] et sequitur [illegible] artificialibus [illegible] optesis quidem
[illegible] optesim [illegible] optesim [illegible] artificialibus [illegible] optesis quidem
[illegible] optesis [illegible] est digestio [illegible] a calore sicca et aliena [illegible]
[illegible] optesis dicta [illegible] digestio [illegible] humidi [illegible] a calore sicca et aliena
[illegible] optesis fit a calore sicca [illegible] digestio [illegible] fit a calore humida vocatur
[illegible] optesis [illegible] digestio [illegible] passationem [illegible] pati [illegible]
[illegible] fit [illegible] a calore aliena [illegible] assatur [illegible]
[illegible] assatur vel optesis pati [illegible] a calore aliena [illegible] ignis [illegible]
[illegible] optesim [illegible] completur [illegible] optesim [illegible]
a calore aliena [illegible] et [illegible] sit [illegible] digestio
[illegible] optesis fiat [illegible] sicca [illegible] facit [illegible] et [illegible]
[illegible] quod et si [illegible] optesim [illegible] non ab humidi ca-
liditate sed ab ea [illegible] ignis [illegible] consummatio fiat [illegible] assum sit
et [illegible] elixatio [illegible] optesim [illegible] a sicca ac calore fit
[illegible] sicca fiat consummatio [illegible] hic [illegible] optesis [illegible]
[illegible] quod [illegible] quod [illegible]
[illegible] optesim [illegible] elixationem [illegible] digestio [illegible] ab [illegible]
[illegible] ab a calore [illegible] ignis et [illegible] sicca [illegible]
[illegible] digestio [illegible] sit assatio [illegible] elixatio et [illegible]
vel assatio [illegible] digestionem completam [illegible] patet [illegible] sit
a sicca calore [illegible] optesis sit [illegible] a calore [illegible]
[illegible] complete [illegible] a calore [illegible] optesis [illegible]
[illegible] optesis [illegible]
[illegible] carnes [illegible] humido [illegible] calor [illegible]
[illegible] fiunt [illegible] complete
a calore continente in humido [illegible] a calore sicca [illegible] ignis [illegible]
[illegible] complete digestio [illegible] assatio vel optesis [illegible] et
[illegible] assatio [illegible] sit [illegible]
[illegible] a calore sicca [illegible] carnes [illegible]
ad patellam [illegible] humido [illegible] humidum [illegible] carnes
[illegible] calore sicca [illegible] carnes [illegible] assa
[illegible] digestio [illegible] a calore [illegible] humido [illegible]
[illegible] vel [illegible] elixata aut [illegible] tovum et op-
tesis quod et [illegible]: est [illegible] artificiose magis assare quam elixare [illegible]
[illegible] regulariter calefacere [illegible]

[illegible]

Capitulum sextum [illegible]

optesis

quia igitur [illegible] et magis [illegible] [illegible] ... sed [illegible]

[illegible]

Tales [illegible] ... sunt ab arte. Sunt autem optesis quidem et epsesis sicut dicimus et arte fieri. eadem et a natura similes earum que sunt passiones sed innominate. imitatur enim ars naturam nam et alimenti digestio in corpore similis optesi est. et enim in humido et calido a calore corporis fit. et indigestio similis molinsi [illegible]

[illegible]

[illegible]

Et animal non sit in ipsa digestione in segregatione putrefacta in inferiori ventre deinde ascendit sursum digestio autem in superiori ventre [illegible] putrescit autem nunc in inferiori segregatio propter [illegible] tamen deinde est in aliis [illegible]

[illegible]

[illegible] quid est oppositum contrarium / et autem ei oppositum dicte digestionis. In quo [illegible] oppositum simpliciter [illegible] aut nominatum [illegible] aut utrisque [illegible] sicut status sed [illegible] non oppositum propter defectum talis [illegible] accidit

[illegible] indigestio opposita [illegible]

Digestiones — pepansis, epsesis, optesis — contrarie — omotetes, molinsis, statesis — indigestiones

.indigestio

[illegible]

... autem ipsis paucitate caloris [illegible] ... ipsis ... aque ...
... quod obtinent pati. Fit enim plus quidem est [illegible] ut non
moveatur [illegible] aut [illegible] ut digeratur. Quidquid est digestio et
indigestio et pepansis et omotetes et epsesis et optesis et contraria
[illegible]

[illegible]

statesis

Tractatus secundus

Passivorum autem humidi et sicci dicenda species [illegible]
[illegible]

Calor [illegible]

lege

Quid [illegible]

Sunt autem principia quidem corporis passiva: humidum et siccum
[illegible]

[illegible] humidi et sicci [illegible] Nota

[illegible]

humidi et sicci contrarietas est magis humidum [illegible]

Alia autem mixta [illegible] sicca vero sunt, puta hoc quod fit magis [illegible]

Hoc autem humidi [illegible]

[illegible] Gumbuta [illegible]

[illegible]

[illegible] actu enim. Hec autem in opposito [illegible]

Omnia autem hec humid[a] [illegible] sicut liquefacto [illegible]

[illegible]

[illegible] sicca autem difficile tunc [illegible]

[illegible] autem est humidum [illegible] ad pulvere et contineri [illegible]

[illegible] patitur humidum cum sicco [illegible] Farina

[illegible] sicut et carnes [illegible] in phlegmate sicut aqua [illegible]

[illegible] humidum corpus [illegible]

Farina [illegible]

[illegible]

[illegible]

Duo autem elementorum et passivorum: terra et aqua, passiva haec omnia determinata corpora haec sunt, non sine terra et aqua, sed unicuique ad plus secundum potentiam, hinc unumquodque videtur, et in terra et aqua alia solida sunt, in aere autem et igne non sunt, quae corpora materia haec.

[illegible]

Corporalium autem passionum has primas necesse inesse determinato: necesse enim aut molle ex humido et sicco aut durum esse aut molle.

[illegible]

Est autem durum quidem quod non cedit in se ipsum secundum superficiem, molle autem quod cedit non circumstando; aqua enim non mollis, non enim cedit compressioni superficies in profundum sed circumstat.

[illegible]

[illegible] distinctionem duri et mollis [illegible] ad [illegible]
[illegible]
[illegible] cedit [illegible] tangenti [illegible]
[illegible] aque [illegible] cedit [illegible]
[illegible] tangenti [illegible] cedit [illegible]
[illegible] molle [illegible] tangenti cedit [illegible]
[illegible] tangens [illegible]
[illegible] aqua cedat tangenti [illegible] molle
[illegible] tangens
[illegible] molle cedit tangenti [illegible]
[illegible] aqua [illegible] durum est
[illegible] ad [illegible] tangenti [illegible] et [illegible]
[illegible] molle aut [illegible]
[illegible] durum et molle [illegible] simpliciter [illegible] ad aliud [illegible]
simpliciter quod [illegible] quod ad illud [illegible] quod ultimata
sunt maxime et minime [illegible] molle [illegible]
[illegible] durum et molle [illegible] ultimata [illegible]
[illegible] durum et molle [illegible]
[illegible] molle [illegible] cedit [illegible]
[illegible] molle [illegible]
[illegible] ad [illegible] molle [illegible] ad [illegible]
molle [illegible] durum et molle [illegible] durum
et molle [illegible] ultimata ad [illegible]
[illegible] durum et molle [illegible]
[illegible] ad [illegible] terminata vel [illegible]
Tertio autem ad primum omnia indigentia [illegible] sit et durum
et molle simpliciter ad tactum determinantur tamquam medio [illegible]
tactu [illegible] quod durum [illegible] aut molle dicitur [illegible]
[illegible]
ad [illegible] durum et molle [illegible] ad tactum [illegible] tactu
[illegible] tactu [illegible] medio [illegible] tangentium [illegible] tactu
[illegible] tactu [illegible] durum [illegible] molle [illegible] tactum [illegible]
durum et molle [illegible] ad tactum [illegible]
[illegible] durum
molle [illegible] tactu [illegible] durum et molle [illegible]
et [illegible] ad tactum [illegible]
[illegible] tangibile [illegible]
[illegible] durum [illegible] cedit [illegible]
[illegible] molle [illegible] cedit [illegible]
[illegible] aut durum et molle [illegible] terminatum corpus [illegible]
[illegible] aut [illegible] aut [illegible] coagulatum [illegible]
[illegible]
molle quod durum [illegible] aut coagulatio sunt omnia [illegible]
composita et terminata [illegible] coagulatione [illegible] de coagulatione aut [illegible]
[illegible]
[illegible]
[illegible] coagulatione [illegible]

Capitulum secundum

[illegible]

Similiter autem cause et secundum illas due, faciens et passio. Faciens quidem est unde motus, passio autem ut species. Unde et coagulationis et diffusionis et eius quod est desiccari et humectari

[illegible]

faciunt autem faciens dualiter virtutibus et patiens passionibus dualiter, sicut dictum est. Facit quidem calido et frigido, passio autem in presentia aut in absentia calidi aut frigidi. Quoniam autem coagulari est siccari, liquefieri humectari ...

[illegible]

[illegible] itaque aut humidum aut siccum [illegible] corpora [illegible]

Patiens [illegible]

[illegible]

[illegible] aqua sicci aut terra [illegible]

Omne autem humidi corpus [illegible] passivum [illegible]

[illegible]

[illegible] magis in hiis [illegible] et in

Utriusque et eiusdem pas: terra et aqua frigida supponuntur [illegible]

[illegible]

[illegible] corruptio aut siccum [illegible] sicut

[illegible] aut et sicci [illegible] calefacere [illegible] non ut calidum sed in [illegible]

[illegible]

[illegible] aqua

Desiccata [illegible] sive per aquam [illegible] sive [illegible]

sive [illegible] aut supposita [illegible] velut in [illegible]

[illegible] aut velut in lacte [illegible] talia [illegible]

vina [illegible]

[illegible]

sicut oleum aut pix [illegible]

[illegible]

[illegible]

Desiccantur autem omnia : calido aut interiori calore aut exteriori ... aut calefacta aut infrigidata ... omnia ...

[illegible]

... sicut vestis ... si fuerit separatum ...

Etiam quae ... ipsum separatum humidum ... calido sit ... humido desiccato ... humido exeunte ... frigido ...

[illegible]

Desiccantur quidem sicut dictum est omnia aut calefacta aut infrigidata
et omnia calido aut exteriori aut interiori coeducente humidum. Dico
autem exteriori quidem sicut que elixantur [illegible] interiori autem quidem cum ablata a calido
[illegible] consumpta sunt conspirante et desiccatur quidem sicut dictum est [illegible]

[illegible]

incineratum est. Aut est unum quidem aqua facere constantem
humiditatem: unum autem liquefieri coagulatum. Horum autem constat quidem ex
generatione spiritus [illegible]

[illegible]

[illegible] et est palam [illegible]

De liquefactione autem simul et de coagulatione [illegible]

[illegible]

Coagulantur autem quecumque coagulantur aut aque existentia aut [illegible] et aque

[illegible]

[illegible] quod et solum [illegible]
est hec autem frigido aut calido aut ab utrisque. [illegible] solum a calido
coagulatorum autem a frigido atque quidem cum a sicco calido coagulata
sunt ab aqua solvuntur que [illegible] que ex humida coagulantur quod
unumquodque [illegible] ab aqua ut mel elixatum coagulatum non ab aqua
sed aliquo eorum ipsa frigido [illegible]

[illegible]

28

[illegible]

Quecumque autem communia sunt aque non coagulantur ab igne; ab igne [illegible] solvunt enim idem autem eidem non est propter contrarium in abscedendo autem calidum coagulantur quecumque palam [illegible] in ingrediendo solvuntur [illegible]

[illegible]

[illegible] facientes frigidum coagulatum propterea quod non inspissantur talia. Coagulata autem inspissantur [illegible] aut constanter. Aqua autem frigidum non inspissatur sola [illegible]

[illegible]

[illegible]

ex terre et aque et ab igne coagulantur [illegible]

Concrescunt autem quedam a frigido inspissata, quedam ab ambobus. Est quidem ut

eodem quedam ut aliud a calido educente humidum, evaporante

cum humido inspissata sunt et constat a frigido aut calido exprimente

ad quo humida sunt recedit evaporans [illegible]

[illegible]

Concrescunt quidem que mollia sed non humida non dissoluuntur sed

coagulata exeunte humido velut a quibus lac. Concrescunt autem hu-

mida mixtorum et inspissantur velut lac. Multa autem et humi-

ditate [illegible] aut grossa aut dura aut sicca [illegible]

[illegible] quadam et later [illegible] dum assatur evaporat et molli-

or sit [illegible] in carne [illegible]

[illegible]

[illegible]

terre et aque plus habent.

Quecumque quidem a frigido: terram habent, eque quidem in calido ex frigido coagulantur, hec liquescunt calido inferius dicto, velut lutum cum congelatum fuerit.

[illegible]

Quecumque autem propter infrigidacionem et calidum simul educto: hec insolubilia sunt nisi superhabundanti caliditate, sed mollificantur velut ferrum et cornu.

[illegible]

... liquescit autem et laboratum ferrum ut humidum fiat et iterum coaguletur, et calibes faciunt sic; subsidet enim scoria et purificatur a scoria. Cum autem sepe paciatur et purum fiat, hoc calibs fit. Non faciunt autem sepe ipsum propter absumptionem fieri multam et pondus minui purificati.

: a quo non [illegible] consolvunt de scoria

Est autem melius sal quod habet maiorem purificationem a calce. Hic declarat [illegible] coagulata [illegible] superhabundante calore [illegible] declarat [illegible] metalla [illegible] declarat [illegible] quod [illegible] liquescit autem [illegible]. Et molle liquatur [illegible] et [illegible] plumbum [illegible] liquescit ut fiat plumbum et ut iterum coagletur [illegible] calibes [illegible] calibe [illegible] scoria [illegible] coagulata [illegible] calor [illegible] superhabundanti calore [illegible] lapidis [illegible] calido [illegible] distillat [illegible] coagula [illegible] calibs [illegible] liquescit [illegible] coagulatio [illegible] calibs [illegible] Item [illegible] [illegible] Item [illegible] [illegible] purgatio [illegible] valde [illegible] fragilis [illegible] fit calibs [illegible] purgatio fit melior calibs ut stillet et fluat.

Liquescit autem et lapis pyrimachus: quando autem coagulatur fluxit, iterum durum fit et molle liquatur ut fluat, solvet coagulata calore et ingressu. Simile autem fit cum calor liquescit autem et lutum in terra. Hic declarat [illegible] quod [illegible] dicens et lapis pyrimachus liquescit ut stillet et fluat [illegible] lapidum coagulata [illegible] plumbo [illegible] ut fluat [illegible] coagulatio [illegible] calor [illegible] calor [illegible] liquescit [illegible] Nota pyrimachus [illegible] calorem liquescit [illegible] stillat [illegible] calido iterum coagulatur [illegible] Item [illegible] metalla [illegible] igne [illegible] coagulatur [illegible] calor [illegible] plumbo calido [illegible] Item [illegible] plumbo [illegible] liquida [illegible] coagulatur [illegible] calore [illegible] agentis [illegible] separat [illegible] coagulat [illegible] coagulate [illegible] ad altarem [illegible] Biblia

Quaedam autem a sicco calido coagulantur sicut quidam insolubilium; hec autem solvuntur humido ut later quidam et lapidum quorundam genera [illegible]

Vel Nitrum est quidam lapis ad modum vitri / de quo etiam in aliquibus partibus fiunt fenestre /

Nitrum id est Galetra

ab igne et terra combusta sunt velut molares insolubilia humido. Nitrum autem et sales solubilia humido, non omni autem sed frigido, puta aque et quecunque aque species liquescunt. Oleo autem non liquescunt. Sicco autem calido contrarium frigidum humidum. Si igitur coagulavit alterum, alterum solvit. Sic enim contraria erunt causa contrariorum.

[illegible]

Incrassantur quidem ab igne plurima, coagulantur autem quecunque aque plus habent quam terre. Coagulantur autem quecunque terre plus habent, puta nitrum et sales. Terre sunt magis et lapis et later.

[illegible]

Maxime autem dubie habet olei natura. Dicimus cum aque operabat coagulari a frigido ut glacies. Si autem terre plus, ab igne ut later. Hoc autem coagulatur neque a neutro, ingrossatur autem ab ambobus. [illegible] O Simul

causa autem [illegible] a frigido [illegible] ab igne [illegible] coagulatur ut later [illegible] Dubitacio

[illegible]

[illegible] non albescit

Causa autem est quia plenum est aere propter quod et in aqua supernatat. Etenim aer fertur sursum. [illegible] O Simul

[illegible] Nota [illegible] 38

[illegible] a frigido neque a calido. Continet vero aquam frigus ingrossat. Semper enim frigidum quando est. Vinum mixta sunt oleum et aqua ambobus fit grossius. Ab igne autem et tempore ingrossatur et albescit. Albescit quidem evaporante aqua si qua inerat, ingrossatur autem propter marcescente calido ex aere fit aqua. Utrumque enim eadem fit passio et propter idem, sed non eodem modo. Ingrossatur quidem igitur ab ambobus. [illegible] O Simul

[illegible] 39

[illegible]

[illegible]

Desiccatur autem a neutro neque enim sol neque frigus desiccat non solum quia viscosum sed etiam quia aereum est. Non desiccatur autem neque decoctum ab igne quia non evaporat propter viscositatem.

[illegible]

terrestrius autem mixta aquae et terrae secundum utrumque dici. Vinum enim quoddam et coagulatur et decoquitur puta velut mustum. Abscedit autem ab omnibus talibus desiccatis aqua. Signum autem quod aqua. Vapor enim constat in aquam si quis velit colligere. Quare in quibuscumque relinquitur aliquid hoc terrae.

[illegible]

[illegible]
[illegible] est ingrossa et desiccatur.
Coagulantur autem horum et a frigido sicut dictum est; frigido enim solo congelatur [illegible]
[illegible] desiccatur quidem aqua, ingrossatur autem aer: aerem faciens coa-
gulatio quidem desiccatio [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] aque
Constituuntur quidem que non ingrossantur a frigido sed coagulantur [illegible]
velut vinum urina et acetum et lixivium et serum [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] evaporantia ab igne [illegible]
Constituuntur autem ingrossantur non terre [illegible] autem quia aque et
aeris [illegible] quidem terre oleum autem aeris. Et autem et lac et sanguis
amborum quidem communia et aque et terre; magis autem que multa terre,
quemadmodum et ex quibus fit nitrum et sales et lapides autem ex
quibus constant talibus [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] si non separatur serum [illegible] ab igne decoctum; ex autem ter-
restre constat et fit coagulatio si equaliter decoquatur quemadmodum
medici coagulum imponentes. Sic autem separatur serum et caseus. Separatum
[illegible]

aut non adhuc ingrossatur sed remanet sicut aqua. Si autem acc[idat quod] lac non habeat caseum aut paucum, habeat magis aque et insensibile

[illegible]

stagulatur cum corpus desiccatur et spissi-
Et sanguinis autem similiter eo indicatur. Quidam autem non coagu-
lantur velut qui terrei sunt aque magis et frigidi sunt propter quod
et non habent villos in eis cum sunt terre et solidi [illegible]
coagulatur. Hoc autem est quia non desiccatur. Aqueum enim quod relinquitur
ut lac caseo ablato. Signum autem est languidos enim sanguines
nolunt coagulari velut ichor. Hoc autem flegma et autem aqua
propter indigestum esse et inseparatum a natura [illegible]

[illegible]

[illegible] a [illegible] aque [illegible] vestigia [illegible] aqua [illegible]
vestigia [illegible] agua [illegible]
[illegible]
[illegible]
[illegible] aque [illegible]
[illegible] lacte ablato caseo [illegible]
[illegible] coagula[illegible]
[illegible]
[illegible] aqua [illegible] velut vitrum [illegible]

Quecunque autem liquida solubilia sunt: hec velut sal et lapis [illegible]
Que autem liquida mollificabilia velut cornu, hec autem non mollificabilia
velut lapis et later [illegible]
coagulata [illegible]
[illegible] solubilia velut vitrum [illegible]
[illegible] mollificabilia velut cornu [illegible]
mollificabilia velut later [illegible]
[illegible] vitrum [illegible] sal [illegible] ut lac [illegible]
[illegible] lapis qui coagulatus [illegible]
mollificati [illegible] ductilia [illegible] cornu [illegible] ut lac [illegible] lapis

Causa autem est contraria contrariorum esse causas. Si ergo coagulant duobus
frigido et sicco, necesse solvi calido et humido; propter quod solvuntur igne et
aqua. Hec enim contraria, aqua quidem quecunque igne solo, igne autem
quecunque frigido solo. Quare si a duobus accidat coagulari, hec indisso-
lubilia maxime. [illegible]
[illegible]
[illegible] aqua coagulatur [illegible] frigido [illegible] sicco [illegible]
[illegible]
[illegible] calido [illegible]
[illegible]
[illegible]
[illegible] aqua coagulata [illegible] calido [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] aqua [illegible] coagulata [illegible]
[illegible] aqua coagulata [illegible] solo calido [illegible]
[illegible] frigido coagulata [illegible] aqua [illegible]
[illegible] ab ambobus [illegible] calido [illegible] sicco [illegible] coagulata [illegible] a calido vel frigido
vel ab ambobus [illegible] frigido coagulantur [illegible]

Sunt autem ista quecunque calefacta, deinde frigido coagulantur. Accidit enim
solvi humido [illegible] a frigido [illegible] humido [illegible] et
propter hoc necesse calido solvi. Quecunque enim a frigido coagulantur solo, hec sol-
vuntur necesse ab aqua. Quecunque enim a frigido coagulantur, non solvuntur frigido
sed quecunque a calido sicco solo. Sic autem liquescunt a calido, frigescunt coagu-
lata. [illegible] declarat [illegible] calefacta [illegible] coagulantur [illegible]
[illegible] calido [illegible] a frigido [illegible]
[illegible] humido et propter hoc necesse calido [illegible] coagulantur
solo frigido [illegible] calido [illegible] ab aqua [illegible] a frigido [illegible]
[illegible] ab aqua [illegible] a solo calido sicco coagulantur. Sic autem liquescunt

a calido coagulata propter frigiditatem // Non autem ab hoc ducit quod aqua coagulatur a duobus scilicet a calido et frigido et quod talia sunt insolubilia [illegible] Et hic declarat quomodo hoc fiat et quod quae a frigido coagulata sunt copiosa per actionem calidi et ex potentia complete coagulantur per actionem frigidi talia sunt insolubilia ad declarationem quod quae in talibus est [illegible] eum quo est extrahitur humido [illegible] actio quod humidum [illegible] ad frigiditatem a partibus illius coagulati [illegible] compressa [illegible] ab frigido et in talia [illegible] partibus admixta [illegible] et eo fit claudunt [illegible] quod per ipsa humidum a quo [illegible] liquefacta non [illegible] per [illegible] calidum [illegible] per ipsum liquefacta quod calidum non liquefacit [illegible] quae sunt coagulata solo frigido [illegible] et de isto [illegible] neque est aqua liquefacit quod aqua non liquefacit ista quae coagulantur a frigido solo [illegible] quae coagulantur a calido frigiditatem non [illegible] [illegible] sunt coagulata [illegible] a calido et [illegible] a frigido talia sunt insolubilia [illegible] si essent solubilia [illegible] a calido vel frigido vel humido vel sicco [illegible] vel frigido vel humido [illegible] [illegible] sicco non [illegible] [illegible] a sicco quod talia [illegible] et eo coagulata [illegible] liquefactionem Item [illegible] quod est [illegible] quod [illegible] per liquefactionem a calido Est [illegible] quod est coaginum

Quaecumque autem sunt terrae et aeris permixta ustibilia et non liquabilia ut ligna: mollificabilia et in aqua supernatant praeter ebanum. Haec autem non. Alia quidem enim aeris plus habent, ex ebano autem nigro evaporavit aer et est plus in ipsa terrae. Hic Aristoteles [illegible] quod [illegible] sunt [illegible] terrae et aeris et [illegible] [illegible] [illegible] a quo [illegible] [illegible] [illegible] [illegible] [illegible] sicut [illegible] quia terrae et aeris [illegible] sunt combustibilia et non liquabilia neque mollificabilia [illegible] supernatant in aqua praeter ebanum [illegible] non supernatat [illegible] aqua [illegible] plus habent aeris [illegible] ebano [illegible] plus evaporavit [illegible] plus terrae [illegible] ligna sunt combustibilia non liquabilia neque mollificabilia [illegible] terrae et aeris et non aquae sunt combustibilia et [illegible] neque mollificabilia [illegible] [illegible] non quod humidum aereum [illegible] sicco [illegible] [illegible] igne [illegible] [illegible] [illegible] terrae et aeris sunt combustibilia et [illegible] [illegible] aquae non sunt mollificabilia vel liquabilia [illegible] aer [illegible] [illegible] [illegible] terrae et aeris [illegible] supernatat in aqua [illegible] aeris Item [illegible] supernatare aquae [illegible] ligna [illegible] aeris [illegible] in aquis [illegible] in [illegible] evaporabilis [illegible] et plus terrae [illegible] [illegible] [illegible] Item [illegible] ebanum [illegible] alba [illegible] [illegible] [illegible] aeris quod ipsa supernatat [illegible] in aquis [illegible] [illegible] sub aqua [illegible] aquae humidum [illegible] [illegible] et ad [illegible] terrae [illegible] autem [illegible] [illegible] fiat [illegible] Later

autem terrae solum propter quod desiccatus coagulatur. Secundum modicum enim aquae intrantis [illegible] per quae solum exeunt, neque ignis coagulavit eum ipse exmittens. Dictum est de coagulatione et liquefactione et propter quid et in quibus est. Hic [illegible] later [illegible] [illegible] [illegible] terrae [illegible] coagulatus [illegible] modicum [illegible] [illegible] loca per quae exeunt humidum [illegible] [illegible] [illegible] solent laterem [illegible] ignis coagulavit laterem [illegible] [illegible] quod coagulatio [illegible] liquefactio [illegible] et in quibus est [illegible] non [illegible] [illegible] [illegible] [illegible] ignis vel aeris [illegible] [illegible] [illegible] aqua [illegible] coagulatum [illegible] [illegible] [illegible] humidum [illegible] humidum [illegible] [illegible] [illegible] liquefieri [illegible] [illegible] liquefieri [illegible] ab aqua vel ab igne [illegible] ab aqua quod aqua non [illegible] [illegible] poros per quos evaporavit humidum subtile [illegible] [illegible] laterem [illegible] [illegible] humidum valde sunt [illegible] [illegible] claudunt [illegible] liquefieri ab igne [illegible] ignis coagulavit laterem. Manifestum est quod a calido et frigido constant corpora,

Ex his autem manifestum: et haec autem coagulantia et ingrossantia faciunt

maius

Calidum Nutrimentum

operationum ipsorum, propterea quia quecunque ab ipsis condita sunt in omnibus inest caliditas, a quibus autem et frigiditas, qua deficit [illegible] quare humidi autem et sicci propter participant ipsis quecunque omnibus [illegible]

[illegible]

Ex aqua quidem igitur et terra homogenia: et in plantis et in animalibus, et que metallantur, velut aurum et argentum et quecunque alia talia ex ipsis et ex exalatione eorum utriusque inclusa sicut dictum est in aliis [illegible]

[illegible]

Hec autem differunt abinvicem et in his que ad sensus proprie omnia: posse aliquid facere sensum sunt [illegible]

[illegible] Et in aliis [illegible]

talibus ut [illegible] odorans et sanativum et dulce et calidum et posse aliquid facere sensum sunt

Et in aliis manuscriptis

[illegible] convenientibus passionibus consimilia et non similia [interlinear: [illegible] passibilia [illegible]] dico autem
puta liquabile et coagulabile et flexibile et quaecumque alia talia; omnia
enim talia passiva sicut humidum et siccum. His autem iam differunt os et caro
et nervus et lignum et cortex et lapis et aliorum unumquodque homoio-
merorum quidem naturalium autem corporum [illegible]

[illegible]

[illegible] aut primo enumerantes ipsorum quaecumque aut secundum potentiam aut
dicuntur: impotentiam dicuntur. Sunt autem haec: coagulabile incoagulabile
liquabile illiquabile, mollificabile non mollificabile, intingibile non
intingibile, flexibile inflexibile, fragibile non fragibile, productibile non productibile,
comminuibile non comminuibile, impressibile non impressibile, formabile in-
formabile, capiabile non capiabile, tractabile non tractabile, scissibile non scissibile,
detruncabile non detruncabile, viscosum fragile, compressibile non compres-
sibile, ustibile non ustibile, exhalabile non exhalabile. Plurima quidem fere
corpora his differunt passionibus. Quid autem unumquodque horum habeat potentiam
dicemus [illegible]

[illegible]

3

140

De coagulabili quidem igitur et incoagulabili et liquabili et illiquabili dictum est quid vero puto [illegible] vide

autem et nunc [illegible]

[illegible]

Corporum enim quecumque coagulantur et indurantur hec quidem patiuntur hec autem a frigido et calido quidem desiccante humidum. A frigido autem exprimente calidum. Quare hec quidem humidi absentia hec autem calidi hec patiuntur. Quecumque quidem aque calidi. Quecumque autem terre humidi

[illegible]

Quecumque quidem igitur humidi absentia: ut immodo velud sunt puri que aque molles velut lac. Quecumque autem non sunt hec humido solvuntur velut nitrum sales terre et que ex luto. Que autem calidi privatione a calido solvuntur velut glacies plumbum es. Coagulabilia quidem igitur coagulabilia et liquabilia dictum est puto et liquabilia et illiquabilia.

[illegible]

frigidi

Incoagulabilia autem quecunque non habent humiditatem aquosam aut non
aque sunt, sed plus calidi et terre, puta mel et mustum velut fer-
vencia enim sunt, et quecunque aque quidem habent sunt autem plus aeris, puta
oleum et argentum vivum et si quid viscosum velut gluten

[illegible]

Mollificabilia autem sunt coagulatorum quecunque non ex aqua velut glacies
aque sed quecunque terre magis et neque
evaporavit totum humidum sicut in vitro aut sale neque sic irregu-
sicut lac sed aut trahibilia non existentia humectabilia aut ductilia, neque
ex aque mollificabilia igne velut ferrum et cornu et ligna.

[illegible]

Sunt autem liquabilia et illiquabilia hec quidem intingibilia hec non
velut es non intingibile liquabile autem cera liquabilia et et intingibilia
madescunt quecunque et est quecunque liquabilia non ab aqua liquabilia. Sed ab aqua
liquabilia quedam non intingibilia velut nitrum et sales. Neque enim
aliquod intingibile nullum quod non mollius fit madescens quecunque aut

Calw Sedin

intingibilia consistencia non liquabilia sunt velut lana et fructus [illegible]

[illegible]

Poros ma-
Omnia autem intingibilia continent terre continua habent poros aque maioribus continuis durioribus aque liquabilia ac aqua continent preterquam et terra non liquefit et intingitur ab humido. Vero autem liquefit quod intingitur a vero quia in uno quod per tota poros continue sunt dividunt mox ab aqua partes in terra autem permutatis per poros continue quam liquefactum utique susceperit est passio [illegible]

[illegible]

[illegible]

Sunt autem et heterogeneorum corporum flexibilia et dirigibilia velut
vimine, hec autem inflexibilia corpora velut later et lapis. Sunt autem
inflexibilia quidem et indirigibilia quecumque corporum non possunt longitudinem
in rectitudinem ex periferia et ex rectitudine in periferiam permutari;
et flecti et dirigi est in rectitudinem aut in periferiam transmutari aut moveri.
Etenim quod reflectitur aut quod deflectitur curvatur; et quidem ad convexum
aut concavum motus longitudine salvata flexio est.

[illegible]

Si enim et ad rectum, erit utique simul flexum et rectum, et quidem impossibile rectum
flexum esse. Et si flectitur omne aut reflectitur aut deflectitur, horum autem
hec quidem ad convexum, hec autem ad concavum transmutatio, non utique erit et
que ad rectum, sed est flexio et rectificatio aliud et aliud. Et
hec sunt flexibilia et rectificabilia et inflexibilia et irflexibilia.

[illegible]

[illegible]

Et hec quidem fragibilia et comminuibilia simul et singillatim: quedam fragibilia comminuibilia aut non: glacies aut et lapis comminuibilia fragibilia aut non lac aut et fragibilia et comminuibilia. Dicitur autem quia fractio quidem est in magnas partes divisio et separatio, comminutio autem quascumque et in duas plures [illegible]

[illegible]

Cerotum quidem sic coagulata ut multos habeant vicissitudinatos poros. Habet comminuibilia usque adeo enim contingit divisio, continuatur autem ad multum fragibilia, continet autem ambo [illegible]

[illegible]

[illegible] bilia velut es et cera, hec autem non impressibilia. Et hec quidem impressibilia velut lac et aqua. Est autem impressio superficiei secundum partem in profundum cessio pulsione aut percussione, totaliter autem tactu. Sunt autem que talia et mollia velut cera manente alia superficie secundum partem transmutata, et dura velut es. Et non impressibilia et dura velut lac, non enim cedit in profundum superficies, et humida velut aqua cedit quidem enim non secundum partem sed totum transmutatur [illegible]

[illegible]

cadit in se ipsa, et sic est impressibilia formalia et capsibilia ... ergo de talibus de impressibilibus
2o de [illegible] 3o de capsibilibus [illegible]
capsibilia [illegible]
differentia alterius [illegible] deficit alterius [illegible]
impressio [illegible] Sunt autem
[illegible] hec autem non impressibilia velut lapis et lignum [illegible]
[illegible] in profundum [illegible] compressio [illegible] a percussione [illegible]
[illegible] tactu [illegible] tactu [illegible] Subdit autem [illegible] aqua [illegible] mollia
impressibilia [illegible] velut [illegible] impressibilia [illegible] aqua
[illegible] cadit in profundum [illegible] impressibilia [illegible] velut [illegible] cadit quod
[illegible] transmutata [illegible] impressio
[illegible] impressionem [illegible]
[illegible] impressio [illegible]
[illegible]
[illegible] impressio [illegible]
[illegible] impressibilia [illegible] aqua [illegible]
[illegible]
[illegible]
[illegible] velut [illegible] impressibilia [illegible]
[illegible] cedat in profundum quod [illegible]
[illegible] aqua [illegible] cedat [illegible] cedit in profundum [illegible]
[illegible] impellens [illegible] impressionem passa

Impressibilium autem quecumque manent quidem et horum impressibilia manent, hec quidem sculptibilia, hec autem non impressibilia, velut lapis aut lignum; horum impressibilia quidem non manent autem impressio, velut lane aut spongie; non sculptibilia. Compressibilia hec sunt. Sunt autem compressibilia quecumque pulsa in se ipsa coire possunt in profundum superficie secus manente non divisa et transmutata alibi alia parte, velut aqua facit; hec enim circumfertur. Est autem pulsio motus a movente ex tactu, fit percussio autem cum ablatione.

[illegible] impressibilia passa impressionem [illegible]
[illegible] sculptibilia, non sculptibilia autem [illegible] impressibilia velut
lapis et lignum [illegible] impressibilia [illegible] velut [illegible] impressio
lane et spongie [illegible] capsibilia [illegible]
[illegible] impressibilia [illegible]
[illegible]
[illegible] impressibilia
[illegible] lane et spongie [illegible]
[illegible] capsibilia [illegible] capsibilibus [illegible]
[illegible] capsibilia [illegible]
[illegible]
[illegible]
[illegible] a movente [illegible] tactu [illegible]
[illegible]
[illegible]

[illegible] vel sic habent vacuos meatus corporis et ca-

Capiunt autem quecunque porositates habent continue prius in ipsa vacua convenire que in ipsos poros velut madefacta spongia, plenum cum ipsius poros sed quecunque pori pleni sunt mollioribus humido ipsum quod connatum est convenire in se ipsum. Capilla quidem igitur sunt velut spongia, cera, caro [illegible]

[illegible]

Non capillaria autem que non nata convenire: neque poros habent humido quecunque duriores habent plenos ut ferrum; non capillaria et lapis et aes et omne humidum [illegible]

[illegible]

Tractilia autem sunt quecunque ad latus [illegible] est transire ad movens planum consistere. Sunt autem hec quidem tractilia velut pilus, corrigia, nervus, pasta, glutinum; sed que non tractibilia et capillaria velut aqua et lapis etc. [illegible]

[illegible]

[illegible] ... Albertus ... [illegible]

... sunt tabilia cadentia et capillabilia velut lana et haec; aut haec quidem, haec autem non eadem sunt, velut flegma et capillabile quidem non est tabile, aut spongia capillabile non tabile autem ... [illegible]

Quod ... [illegible] ... spongia ... capillabilia ... [illegible]

nota ... [illegible]

Sunt autem haec quidem ductilia velut es, haec autem non ductilia: lapis et lignum. Sunt autem ductilia quaecumque in eadem percussione possunt simul in latum et profundum vel superficie transmutari secundum partem, non ductilia autem quaecumque non possunt ... [illegible] ... ductilia ... capillabilia ... [illegible]

Quod ... [illegible] ... ductilia velut es et haec autem non ductilia velut lapis et lignum ... [illegible]

nota ... [illegible] ... metalla ... ductilia ... [illegible]

Sunt autem quaecumque quidem ductilia omnia et impressibilia et compressibilia, aut non omnia ductilia velut lignum; ut tamen ad omne est dicere convertitur capillabilia. Et haec quidem sunt ductilia, haec autem non: cera quidem et lutum ductilia, lana autem non, neque aqua ... [illegible]

Quod ... [illegible] ... ductilia ... impressibilia ... lana ... aqua ... [illegible]

Sunt autem haec quidem scissilia velut lignum, haec autem non scissilia velut lapis. Est autem scissile quod potest dividi ad plus quam dividens dividit; dividitur enim in ad plus dividente dividens et precedit divisio in detruncatione aut in hoc. Non scissilia autem quaecumque non possunt hoc pati ... [illegible]

Talis tertius

[illegible] ... scissibilis

[illegible]

Est autem neque molle neque scissile. Dico autem simpliciter molle: non admittit [illegible] cera enim est molle, neque quae omnia sed genus neque humida sunt neque impressibilia neque continua. Talia autem sunt genere secundum longitudinem habent poros secundum quos adnascuntur invicem sed non secundum latitudinem.

[illegible]

Detruncabilia autem sunt [illegible] quorumcumque neque praecedere divisionem neque quiminui divisa [illegible] aut non humida sunt talia detruncabilia.

[illegible]

[illegible] autem sunt eadem et detruncabilia et scissilia: ut ad multum scissile quidem secundum longitudinem, detruncabile autem secundum latitudinem. Cum enim dividitur unumquodque in multa, quando quidem longitudine multa ex uno, scissile hoc; quando autem longitudine multa ex uno, detruncabile hoc.

[illegible]

[illegible]

Viscosum autem est cum trahibile humidum continens molle sunt. Sic autem fit cum cathenacionem quecumque velut cathene compatiuntur corpora. Hec autem ad multum possunt extendi et convenire. Quecumque autem non talia, frangibilia. Comassabilia autem quecumque compressum masuram habent captivam, incomassabilia autem quecumque aut quecumque aut non capibilia aut non masuram habent captivam.

[illegible]

Et hec quidem ustibilia sunt, hec autem inustibilia, velut lignum quidem ustibile et lana et os, lapis autem et glacies inustibile. Sunt autem ustibilia quecumque habent poros susceptivos ignis et humiditatem in hiis que secundum directum poros debiliorem igne. Quecumque autem non habent aut fortiorem, velut glacies et que valde viridia sunt, inustibilia.

[illegible]

ustibilia
inustibilia

per vinci ab igne eo quod terra sunt ... ut de lignis ... et de quibusdam aliis ... [illegible]
... ut lapis et ebanus ... [illegible] ... que
... ab igne ... [illegible]
... ut de glacie et de lignis ... [illegible] ... aque ...
... [illegible] ... **sunt corporum quecumque humida sunt quidem sicut**
Exhalabilia autem non evaporabilia ab ignis fortitudine ... [illegible]
de exhalabilibus et vaporabilibus ... [illegible] ... exhalabilia ... vaporabilia
... [illegible] ... exhalationum ... [illegible]
... est enim vapor ... [illegible]
... exhalabilia ... [illegible] ... evaporabilia
... ab igne ... a partibus subtilibus et calidis ... exhalabilia
... [illegible] ... subtilibus et calidis ... [illegible]
... exhalabilia ... exhalatio ... [illegible] ... partibus subtilibus
et calidis ... post exhalationem ... [illegible] ... aerem et spiritum segregatio ...
Est enim vapor qui a calido urente in humido madefactivus. Exha-
labilia autem quae in aerem segregantur et quecumque tempore et hec quidem
dispartientia facta. Hec autem terra fiunt. ... vaporabilibus ... exhalationem
... exhalabilia ... vapor ... segregatio ... humidi madefactivus ... a calido ur-
ente ... [illegible] ... exhalabilia autem segregatur in aerem ...
... [illegible] ... dispartientia ... [illegible]
... [illegible] ... madefactiva ... [illegible]
... calidi ... vapor humidus ... in aerem ... [illegible]
... in ventum ... exhalabilia ... [illegible]
exhalatio ... partibus subtilibus ... calido ... calidi urentis ... [illegible]
segregationem ... [illegible] ... temporis ... [illegible]
... dispartiuntur ut de vino et de ... [illegible] ... exhalat ... humidi
... [illegible] ... exhalat ...
Differt autem hec segregatio quia neque madefacit neque spiritus fit. Est autem
spiritus fluxus continuus aeris ad longitudinem. Exhalatio autem que est
a calido urente communis segregatio sicci et humidi aeris ... quidem non
madefacit sed colorat magis. ... [illegible] ... exha-
lationes ... [illegible]
... exhalationem ... a calido urente ... [illegible]
... [illegible] ... segregatio ... [illegible]
... a calido ... madefacit neque fit ... ventus ... continuus fluxus
... aeris ad longitudinem exhalatio autem que a calido urente ... segregatio ... sicci
et humidi ... aeris ... non madefacit ... colorat ... [illegible]
... exhalatio ... a calido urente ... [illegible]
... [illegible]
... [illegible] ... exhalatio ... segregatio ab exhalabili ... madefa-
... ventus ... [illegible] ... exhalationum ...
... ad aerem ... exhalatio que fit a calido urente ... segregatio ...
sicci et humidi aeris ... non madefacit ... colorat ... [illegible]
Est autem que quidem lignei corporis exhalatio fumus. Dico enim et
ossa et pilos et omne quod tale in eodem. Non enim iacet nomine quod
secundum analogiam tamen in uno omnia sunt, sicut Empedocles ait: Hec
pili et folia et avium penne spisse et squame fiunt super solida
membra. Eius autem que pinguis exhalatio lignis, que autem unctuosi nidor
... [illegible] ... exhalationem ... [illegible] ... exhalatio ... corporis
lignei ... fumus ... dico autem ossa et pilos et omne ... [illegible] ... nomine non

[illegible]

Propter hoc oleum non patitur exsiccationem neque incrassatur quando [illegible] Dulce autem est
sed non evaporabile. Aqua enim non exhalabilis sed evaporabilis. Vinum
autem quoddam quod dulce exhalat, pingue enim est, et idem facit oleo. Neque
enim a frigore coagulatur, uritur. Est autem nomine vinum, opere autem
non est. Non enim vinosus sapor, propter quod non inebriat. Communis
autem vinum [illegible] pauca est exhalatio, propter quod emittit flammam.

[illegible]

quaecumque in unum dissolubilium corpora [illegible] Patiuntur
vero [illegible] autem vix: at quaecumque coagulata sunt a calido aut ab ambobus, frigido et calido. Haec enim vix obtusa ab igne
quemadmodum autem lapis sigillum vocatum carbunculus.

[illegible]

[illegible]

Ipsorum autem hec quidem inflammabilia sunt, hec autem non inflammabilia; horum autem quedam carbonabilia. Sunt autem inflammabilia quecumque non humida existentia coagulabilia sunt, puta pix aut oleum aut cera magis cum aliis quam per se sunt inflammabilia. Maxime autem quecumque fumum emittunt. Carbonabilia autem quecumque terre plus habent quam fumi.

[illegible]

... et non inflammabilia sunt, velut es. Et inflammabilia autem liquabilia etiam; flammabilia et non liquabilia, velut lignum; hec autem ambo, velut thus. Causa autem quia ligna quidem per totum habent humidum et per totum continuum est ut comburatur; es autem secundum unamquamque quidem partem, per totum autem non, et minus quam ut flammam faciat. Thus autem hec quidem sic, hec autem illo modo. Inflammabilia autem et coagulabilia quecumque non liquabilia sunt propter magis esse terre. ... cum habent quod igni ... hoc autem calidum si fiat ... igni fit propter hoc flamma; spiritus autem fumum ardens est.

[illegible]

[illegible]

Humida igitur combusta fumus. Cere autem et thuris et lignorum; talium et picis et quecumque habent picem aut talia liquis olei autem et quecumque oleaginea fumosa et quecumque minime ardet sola quoniam pauci sicci habent [illegible] hoc enim est quod propinque siccum unctuosum

[illegible]

Humidi magis ut oleum et pix ardentia combustia humidorum; aut sicci [illegible]

[illegible]

Tractatus Quartus

Hec autem passionibus et his differunt omiomera corporum sicut dictum est. Differunt ab invicem secundum tactum et adhuc saporibus odoribus et coloribus. Dico autem omiomera velut que metallantur, es aut argentum et stannum, ferrum, lapides et alia talia et quecumque ex his fiunt secretata, et que in animalibus et plantis velut carnes, ossa, nervi, pelles, viscera, pili, villi, vene ex quibus iam constat anomiomera, puta facies, manus, pedes et alia talia. Et in plantis lignum, cortex, radix et quecumque talia.

Capitulum primum

[illegible]

[illegible] passionibus [illegible] cui [illegible] quid [illegible] affirmatur
[illegible] calido [illegible]
[illegible] calida [illegible]
[illegible] calida [illegible]
[illegible] Omiomera [illegible] cui [illegible] quid [illegible] corporum
[illegible]
[illegible] omiomera [illegible]
[illegible]
Omiomera [illegible] eorum omiomera [illegible] heterogena [illegible]
[illegible] tangibilia [illegible]
[illegible] coloribus [illegible] omiomera
[illegible] metalla [illegible] metallica [illegible] argentum et
[illegible] terra [illegible]
[illegible] heterogena [illegible] carnes ossa [illegible]
[illegible] omiomera [illegible]
[illegible] terra [illegible] heterogena [illegible] plantis [illegible]
[illegible]
[illegible]
[illegible] omiomera [illegible]
[illegible]
[illegible] carnes [illegible]
[illegible] heterogena [illegible] vegetabilia [illegible]
[illegible] carnes [illegible] heterogena [illegible]
[illegible] plantis [illegible]
[illegible]
[illegible] materia
omiomera [illegible] humido [illegible]
et humido [illegible] aqua [illegible] terra [illegible]
[illegible] calido et frigido [illegible]
et coagulat [illegible] omiomera [illegible] aqua
[illegible] corpus [illegible]
[illegible] mollia [illegible] dura [illegible]
[illegible] coagulant [illegible]
[illegible] corpora [illegible]
[illegible] causa [illegible]
[illegible] humido [illegible] aqua [illegible] terra [illegible]
[illegible] aqua [illegible] terra [illegible]
[illegible] humido [illegible] passiva [illegible] activa [illegible]
[illegible] humido [illegible]
[illegible] omiomera [illegible] heterogena [illegible] aque [illegible]
[illegible] corpora [illegible]
[illegible] mollia [illegible] dura [illegible]
[illegible] metalla
vegetabilia [illegible]
[illegible] aqua [illegible] humido [illegible] terra [illegible]
[illegible] terra [illegible]
[illegible] humido [illegible]
[illegible] heterogena [illegible] aque [illegible]
[illegible] terre [illegible] aque [illegible] humidi
[illegible] mollia [illegible] dura [illegible] mollia [illegible] dura
[illegible]

humiditatem. Quecumque quidem igitur evaporant, aque; quecumque autem non, terre; quecumque terre et aque, velut lac; terre et aeris, velut lignum; aque et aeris, velut oleum. [illegible]

[illegible]

Quecumque quidem a calido coagulantur, communia habent predicta [illegible]

[illegible]

[illegible] vino. Humidorum hoc enim et evaporabit.

Dubitabit itaque aliquis de vino: utique et inspissatur sicut novum. Causa autem quia non in una specie dicitur vinum, et quia aliud aliud. Aliud et album. Novum autem magis terre quam antiquum, propter quod et inspissatur magis calido et coagulatur minus a frigido. Habet enim et calidum multum et terre, sicut qui in Archadia sic exsiccatur a fumo in utribus ut conductum coaguletur bibi. Autem omne fecem habet, sic etiam ut unumquodque est terre aut aque, sic habet multitudinem. [illegible]

[illegible]

[illegible]

Quecunque autem a frigido ingrossantur terre, quecunque autem ab ambobus communia pluris, velut oleum et mel et mel et dulce vinum [illegible]

[illegible]

Constituuntur autem quecunque coagulata: glacies, nix, grando, pruina. quecunque autem a calido terre, velut later, caseus, nitrum, sales. quecunque autem ab ambobus talia autem sunt quecunque infrigidatione. hec autem sunt quecunque ambobus privatione et calidi et humidi sunt egredientes cum calido. Sales enim cum humidi solius privatione coagulantur et quecunque sincera terre, glacies autem calidi solius. hec autem ab ambobus [illegible]

[illegible]

Lac autem electrum et quecunque dicuntur ut lacrime infrigidatione sunt velut mirra, thus, gummi. et electrum autem generis huius videtur et coagulatur. Intercepta enim animalia in ipso videntur. a flumine autem calidum exiens velut cocti mellis, et cum in aquam dimissum evaporat humidum. Hec omnia terre [illegible]

[illegible]

[illegible]

Et hec quidem liquefactibilia [illegible] et mollificabilia velut electrum et lapides quidam velut poros qui in speluncis. Etenim hii similiter sunt hiis, et non velut ab igne, sed ut a frigido exeunte calido concrescunt aut ab coexeunte igne. Reliqua autem non tota terra quidem sed magis mollificabilia. Velut autem ferrum et cornu. Thus autem et talia similiter lignis evaporant. Quoniam igitur liquefactibilia ponenda et que liquefiunt ab igne hec sunt aquosiora, quedam et communia velut cera. Que autem ab aqua terre. Que autem neque ab alto terre sunt ab ambobus.

[illegible]

Coagulata horum autem hec dicta passiva.

Si igitur omnia humida quidem a corporibus et non a continuis omnis utique erunt duo quibus diffinimus utrum terre aut aque a pluribus que et intro ab igne constant a frigido calido a ab ambobus.

[illegible]

Et argentum et es et stannum et plumbum et vitrum et aurum quidem iterum lapides multi innominati aque. Omnia enim hec

liquescunt calido. Adhuc vina quedam et urina et acetum et lixivium et serum et ichor aque: omnia enim coagulantur frigido [illegible]

[illegible] quedam [illegible] coagulantur [illegible] aque [illegible] liquescunt calido [illegible] Adhuc quedam vina [illegible] urina [illegible] serum [illegible] omnia enim [illegible] ista coagulantur frigido [illegible] liquescunt calido [illegible] aque [illegible] aquea a [illegible] aque [illegible] calido [illegible]

ferrum autem et cornu et ungwis et os et nervus et lignum et pili: folia et cortex terre magis. Adhuc electrum, mirra, thus et omnia que dicuntur lacrime et poros et fructus velut legumina et frumentum que terra enim. Hec quidem valde, hec autem minus horum actu terre. Hec quidem enim mollificativa, hec autem coagulativa et infrigidacione facta. Adhuc nitrum, sales, lapidum genera quecumque non infrigidacione incoagulativa

[illegible] magis [illegible] cornu et ungwis [illegible] lignum [illegible] pili folia cortex magis [illegible] Adhuc electrum mirra et thus [illegible] lacrime [illegible] ab arboribus [illegible] velut legumina et frumentum [illegible] valde [illegible] mollificativa [illegible] coagulativa [illegible] sales [illegible] lapidum [illegible] cornu et ungwis [illegible] electrum [illegible] mirra [illegible] ab arboribus [illegible] mollificativa [illegible] coagulativa [illegible]

Sanguis autem et genitura communia terre et aque et aeris. Sanguis quidem habens villos magis terre propter quod frigido coagulatur et humido liquescit; non habens autem villos aque propter quod et non coagulatur. Genitura autem coagulatur infrigidacione exeunte humido cum calido.

[illegible] Sanguis autem et genitura [illegible] aque et aeris [illegible] Sanguis [illegible] magis [illegible] aque [illegible] coagulatur frigido et humido liquescit [illegible] vestigia [illegible] Genitura autem [illegible] coagulatur [illegible] humido [illegible] calido [illegible] Sanguis [illegible] terre et aque et aeris [illegible] aque et [illegible] sanguis [illegible] frigido [illegible] liquescit a calido [illegible] humido [illegible] sanguine [illegible] coagulatur a frigido [illegible] calido [illegible]

Calid[ita]s / fr[igid]i[ta]s

Qualia aut[em] calida a[ut] frigida coagulator[um] a[ut] liquidor[um] ex dictis o[portet] [illegible]

[illegible]

extraneuq[ue] q[uem]ad[modum] aque ut ad multu[m] frigida si no[n] aliena h[ab]ent caliditate[m] vel[ut]

urina et vinu[m] et quecu[m]q[ue] aut[em] t[er]re ut ad multu[m] calida p[ro]pt[er] caliditatis op[er]ac[i]o[n]e[m]

velut calx et cinis [illegible]

[illegible]

Oportet aut[em] accipe[re] frigiditate[m] materiam frigidissima q[ui]de[m] esse [illegible] humida

[illegible] h[ab]et e[nim] passiva [illegible] t[er]ra et aq[ua] sunt h[ab]et e[nim]

frigiditate[m] [illegible] sunt palam [illegible] elementis frigida magis

[illegible] no[n] h[ab]ent aliena[m] calitate[m] velut fervet aqua [illegible] colata

[illegible] h[ab]et e[nim] [illegible] calitate[m] multis e[nim] ignitis e[st] calitas a[ut] ampli

or a[ut] minor p[ro]pter quod et putrefacta alia [illegible] est e[nim] calitas [illegible]

corrupit p[ro]pria[m] [illegible] caliditatem [illegible]

[illegible]

[illegible] alio [illegible] quia h[ab]et calit[atem] [illegible] plima a calit[ate] [illegible] digesti[illegible]

extraneu[m] aliq[ui]d quecu[m]q[ue] aut[em] facta [illegible] velut [illegible] synthecinata

quid secundum naturam calida et sanguis et genitura et medulla et lac
et omnia talia. Corrupta autem et deficiencia a natura non adhuc; relinquitur
enim materia terra aut aqua; propter quod ambo videntur quibusdam, et hii quidem
frigida, hii autem calida hec aut aiunt esse, videntes quia cum in natura sunt
calida, cum autem separata sunt coagulata.

[illegible]

connatum est. In quibus quidem materia
habet quid, ita se totaliter ut dictum est: aque secundum plurimum frigida, opponitur enim
igni maxime; in quibus autem terre aut aeris, calidiora. Accidit autem hec eadem
fieri frigidissima et calidissima aliena caliditate. Coeunt enim maxime
coagulata sunt et solidiora, hec frigida maxime sunt privata caliditate et ardent
maxime si igniatur, velut aqua fumo et lapis aqua urit magis.

[illegible]

Item autem determinatis hiis est singillatim unumquodque dicamus quid
caro aut os aut aliorum homogeniorum. Habemus enim ex quibus omiomerorum
natura constituit genera ipsorum, et genus unumquodque ex quibus, et ex elementis
quod omiomera ex hiis, aut ut corpora omnia opera nature. Sunt autem omnia

[illegible]

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[illegible]

Semper autem magis palam in posterioribus et totaliter quecumque velut organa et que huiusmodi, magis enim palam est quoniam mortuus homo equivoce, sic et manus mortui equivoce, quemadmodum et si fistule lapidee dicantur, velut enim et hec organa videntur esse. Minus autem in carne et osse talia manifesta. Adhuc autem in igne et aqua minus. [illegible]

[illegible]

[illegible] enim gratia nunc est palam ubi plurimum ratio, sicut enim terminus est. Et si omnia accipiantur, materia quidem nihil aliud est preter ipsam, substantia autem nihil aliud quam ratio [illegible] aut proportionaliter [illegible] sit [illegible]

[illegible]

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[illegible]

terram et horum quodlibet: aqua aut ignis, utrumque eadem utrumque vistea [illegible] aut adhuc magis facies et manus. Omnia autem sunt finita opere. Quecumque sunt facta ipsorum opus, ut sunt similiter; puta oculus si videt; quod autem non potest equivoce, puta mortuus homo aut lapideus. Neque enim serra que lignea nisi ut ymago. Sic igitur et caro. Opus ipsius minus palam quam eius lingue. Similiter autem et ignis. Sed adhuc forte minus manifestum quam carnis opus. Similiter autem et que in plantis et inanimata velut es et argentum. Omnia enim potentia quadam sunt aut faciendi aut patiendi sicut caro et nervus. Sed rationes ipsorum non certe

[illegible]

[illegible]

... et cum non facile perficiatur nisi valde ... positum fuerit, et sicut solet fieri reliquie, velut antiquorum mortuorum corpora subito cinis fiunt in sepulcris, et fieri solet signa ... aut non ... dulcitati valde, et coagulata lacte coagulata ...

[illegible]

Tales quidem igitur partes calido et frigido et motibus ab hiis conveniunt coagulatas calido et frigido ... homiomera velut carnes et ossa et pilos et nervos et quecumque talia. Omnia enim differunt predictis differentiis tensione tractione fractione duritie mollicie et aliis talibus. Hec autem a calido et frigido a motibus fiunt mixtis. Composita autem ex hiis que anhomiomera non utique adhuc videbuntur, velut caput et manus et pes. Sed sicut et fiendi causa es quidem et argentum a caliditate et frigiditate et motu fiendi, serra autem et phiala et archa non adhuc, sed hoc quidem ars ibi autem natura vel alia aliqua causa ...

[illegible]

[illegible]

Et gratia huius enim quis unumquodque quid est, puta quid lectus
aut vestis aut forma aut aliorum unumquodque. Sic igitur secundum unumquodque
praedicamentum et quid est si magis aut minus calidum maxime autem alteracionis (?)
generacionis et corrupcionis et in principii motus. Manifestatur autem
hiis simul et omnia consideramus et tamen ex hiis constituta velut
planta et alia talia

[illegible]

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[illegible]

In illo tempore [illegible]

Reverendissimo in Christo patri domino et domino
in [illegible]

Magnum gaudium est [illegible]
[illegible]
[illegible]
qui [illegible]
[illegible]
[illegible] laudanda [illegible]

[illegible]

Magnum [illegible]

[illegible] Reverendissime domine in [illegible]

[illegible]
[illegible]
[illegible]

Ecce [illegible]

III

1423 feria [illegible]
penthecostes [illegible]
est [illegible] notariis [illegible]
[illegible]
et [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

Anna

IV

[illegible]

[illegible]

Salus [illegible] stagnu quod
[illegible] [illegible] stagnum [illegible]
[illegible] [illegible] in [illegible]
[illegible]

[illegible]